



# The Most Intelligent Java IDE

Excel at **enterprise**, **mobile** and **web** development with **Java**, **Scala** and **Groovy**, with all the latest modern technologies and frameworks available out of the box.

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[What's New in IntelliJ IDEA 14.1](#)

JUST UPDATED

## All the Tools You Need Under One Roof



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Enterprise Frameworks

Built-in Developer Tools



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Version: 14.1.3 · Build: 141.1010.3 · Released: May 12th, 2015 · [System requirements](#) · [Installation Instructions](#)

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Java EE, Spring/Hibernate and other technologies support

Deployment and debugging with most application servers

Duplicate code search, dependency structure matrix, etc.

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FREE

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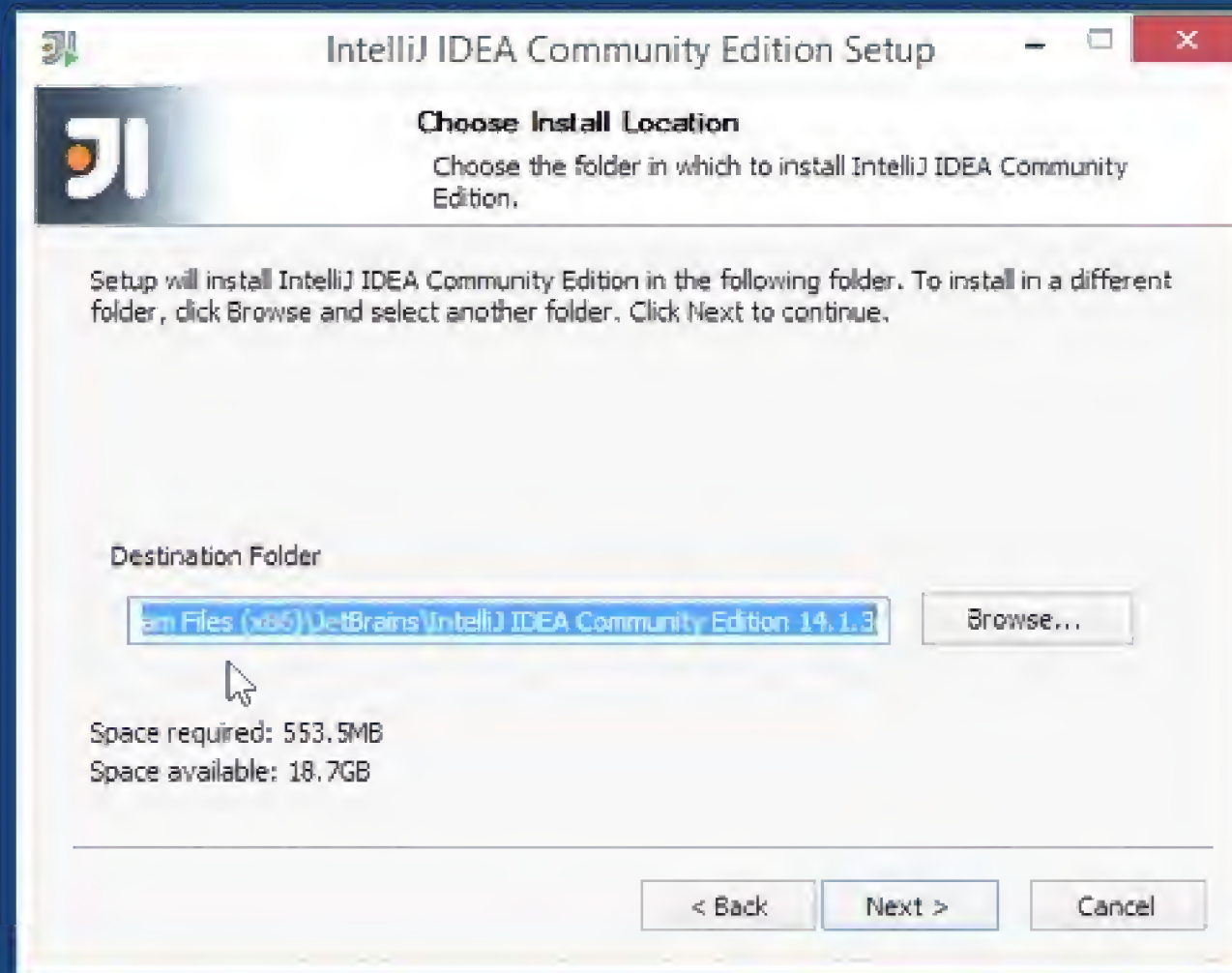
Recycle Bin



Exercise Files



idealC-14.1.3





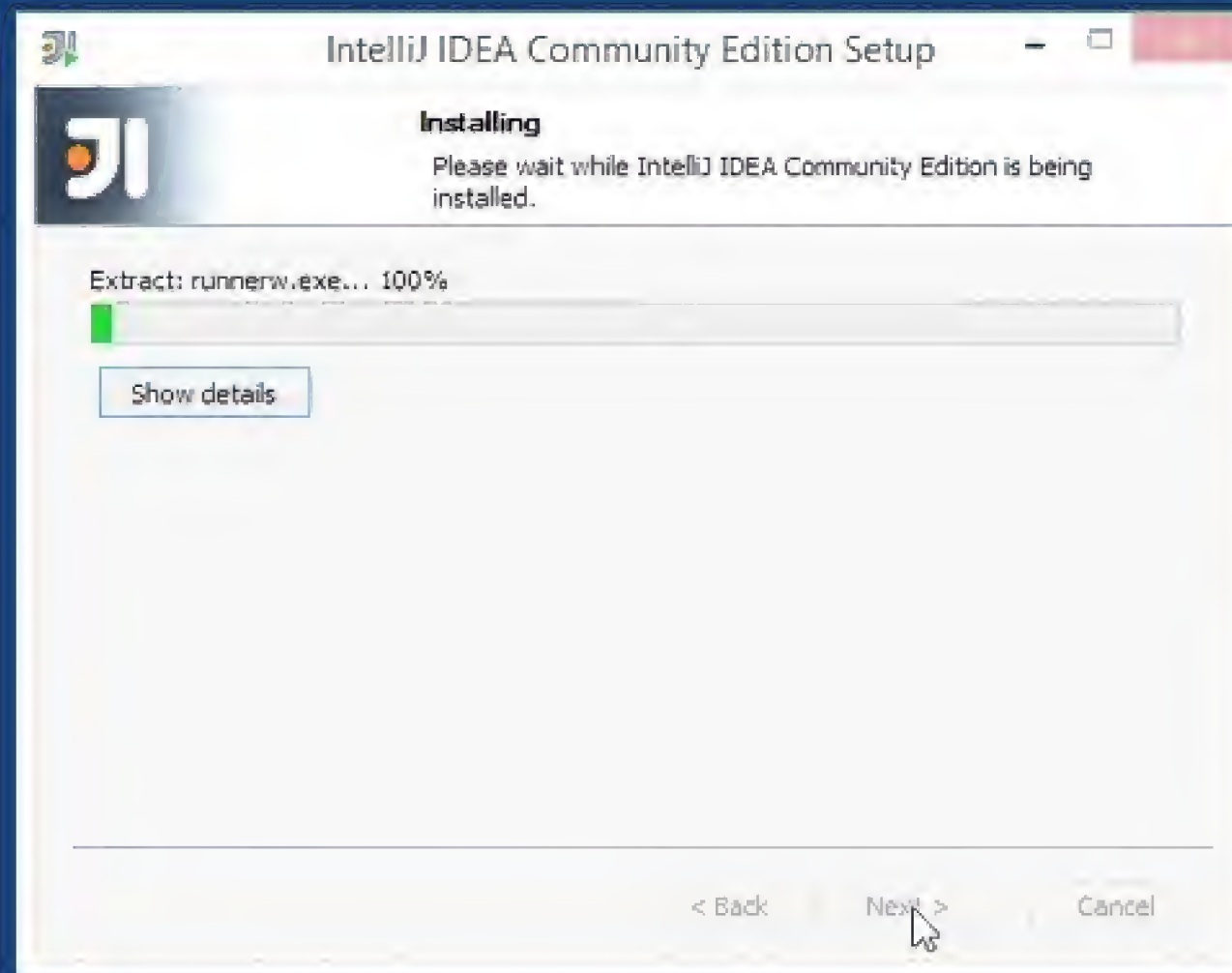
Recycle Bin



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idealC-14.1.3





Recycle Bin



Exercise Files



idealC-14.1.3



Customize IDEA



UI Themes — Default plugins — Featured plugins

## Set UI theme

☒ IntelliJ

module > src > HelloWorld

```
module > src > HelloWorld
HelloWorld.java x
import javax.swing.*;
import java.awt.*;

public class HelloWorld {
    public HelloWorld() {
        JFrame frame = new JFrame("Hello wor
        JLabel label = new JLabel();
        label.setFont(new Font("Serif", Font
        label.
        frame.
        frame.
        frame.
        frame.
        frame.
        frame.
    }
    public sta
}
```

Breakpoints

- ☒ Line Breakpoints
- ☒ Line 6 in HelloWorld.HelloV
- ☐ Exception Breakpoints
- ☐ Any exception

☐ Darcula

module > src > HelloWorld

```
module > src > HelloWorld
HelloWorld.java x
import javax.swing.*;
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        label.setFont(new Font("Serif", Font
        label.
        frame.
        frame.
        frame.
        frame.
        frame.
        frame.
    }
    public sta
}
```

Breakpoints

- ☒ Line Breakpoints
- ☒ Line 6 in HelloWorld.HelloV
- ☐ Exception Breakpoints
- ☐ Any exception

UI theme can be changed later in Settings | Appearance & Behavior | Appearance

Skip All and Set Defaults

Next: Default plugins




Recycle Bin



Exercise Files






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# IntelliJ IDEA

Version 14.1.3

-  Create New Project
-  Import Project
-  Open
-  Check out from Version Control ▾

 **Configure** ▾    Get Help ▾

- Settings
- Plugins
- Import Settings
- Export Settings
- Check for Update
- Project Defaults ▸

Project Settings

Project

Libraries

Platform Settings

**SDKs**

Global Libraries

Problems

Nothing to show

Default Project Structure

Select Home Directory for JDK

C:\

C:\

E:\

Drag and drop a file into the space above to quickly locate it in the tree

OK

Cancel

Help

details here

Project Settings

Project

Libraries

Platform Settings

**SDKs**

Global Libraries

Problems

Nothing to show

Default Project Structure

Select Home Directory for JDK

C:\Program Files\Java\jdk1.8.0\_45

ATI

ATI Technologies

Boot Camp

Common Files

DIFX

eclipse

IDT

IIS

Intel

Internet Explorer

Java

**jdk1.8.0\_45**

jre1.8.0\_45

Logitech

Microsoft Analysis Services

Microsoft Identity Extensions

Drag and drop a file into the space above to quickly locate it in the tree

OK

Cancel

Help

### Default Project Structure

Name: 1.8

JDK home path: C:\Program Files\Java\jdk1.8.0\_45

Classpath Sourcepath Annotations Documentation Paths

- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\charsets.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\deploy.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\javaws.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jce.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jfr.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jfxswt.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jsse.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\management-agent.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\plugin.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\resources.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\rt.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\access-bridge-64.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\clldrdata.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\dnsns.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\jaccess.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\jfxrt.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\localedata.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\nashorn.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunec.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunjc\_provider.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunmscapi.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunpkcs11.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\zipfs.jar

OK Cancel Apply Help



Recycle Bin

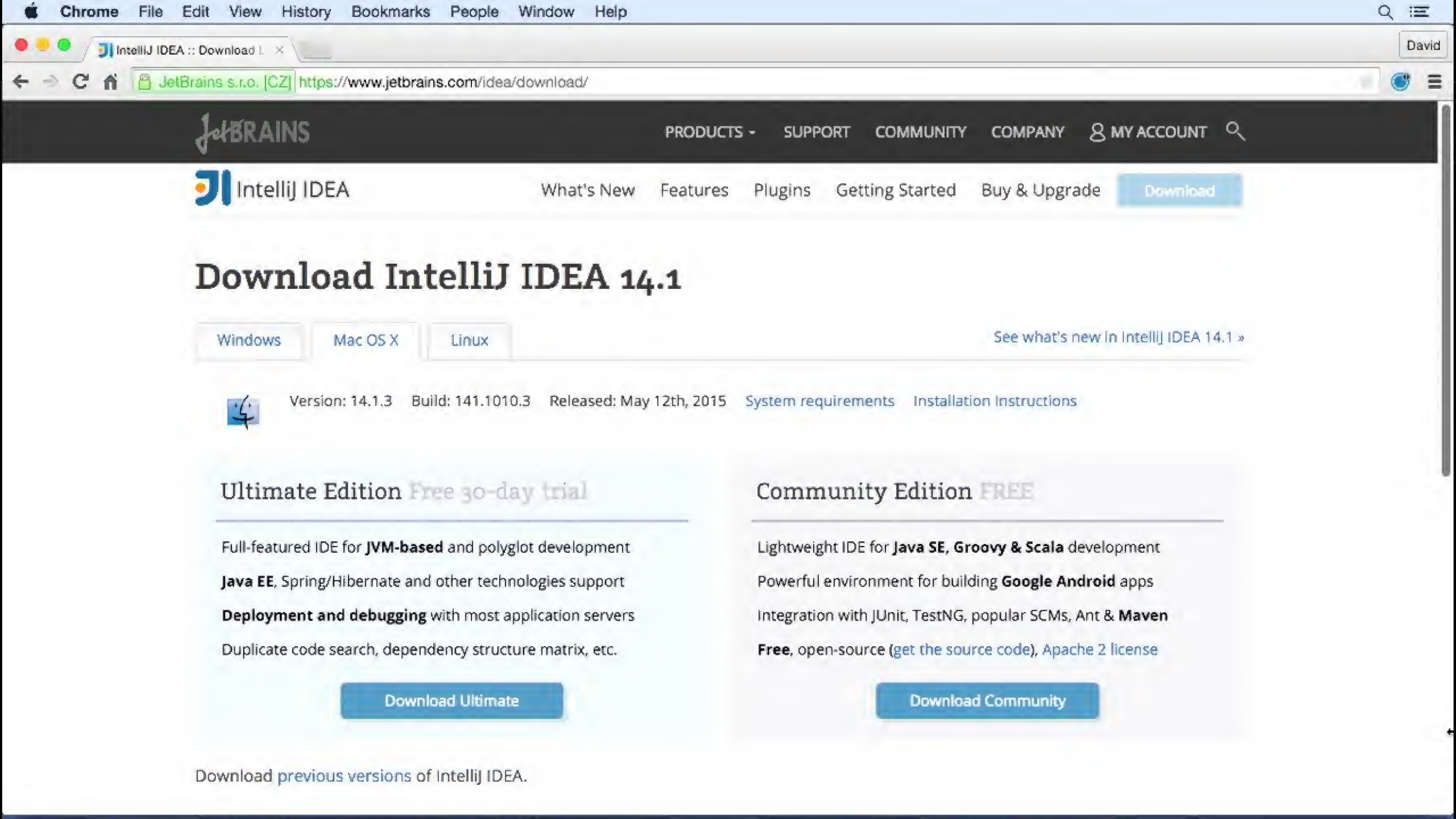


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**Java EE**, Spring/Hibernate and other technologies support  
**Deployment and debugging** with most application servers  
Duplicate code search, dependency structure matrix, etc.

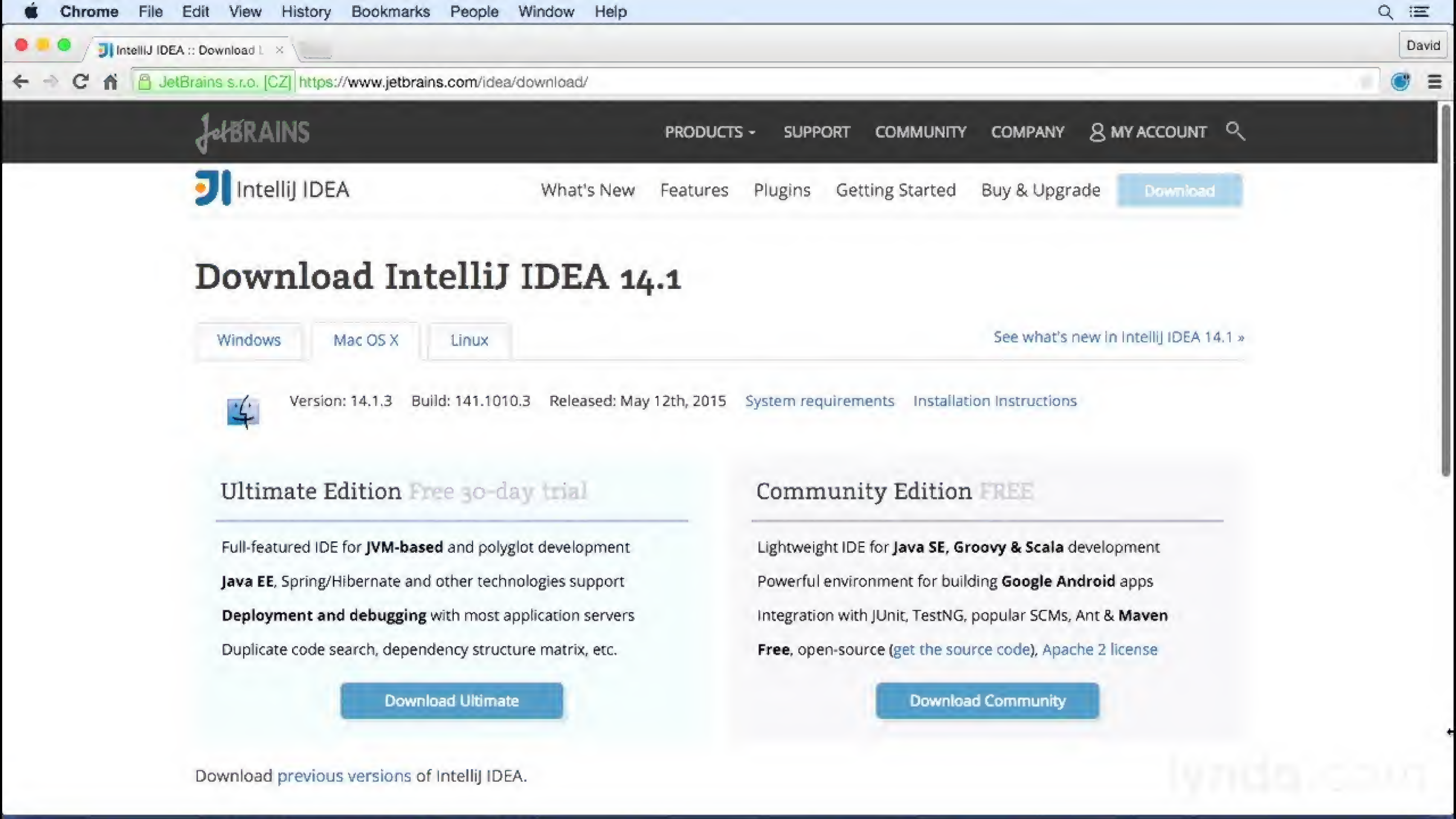
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Lightweight IDE for **Java SE, Groovy & Scala** development  
Powerful environment for building **Google Android** apps  
Integration with JUnit, TestNG, popular SCMs, Ant & **Maven**  
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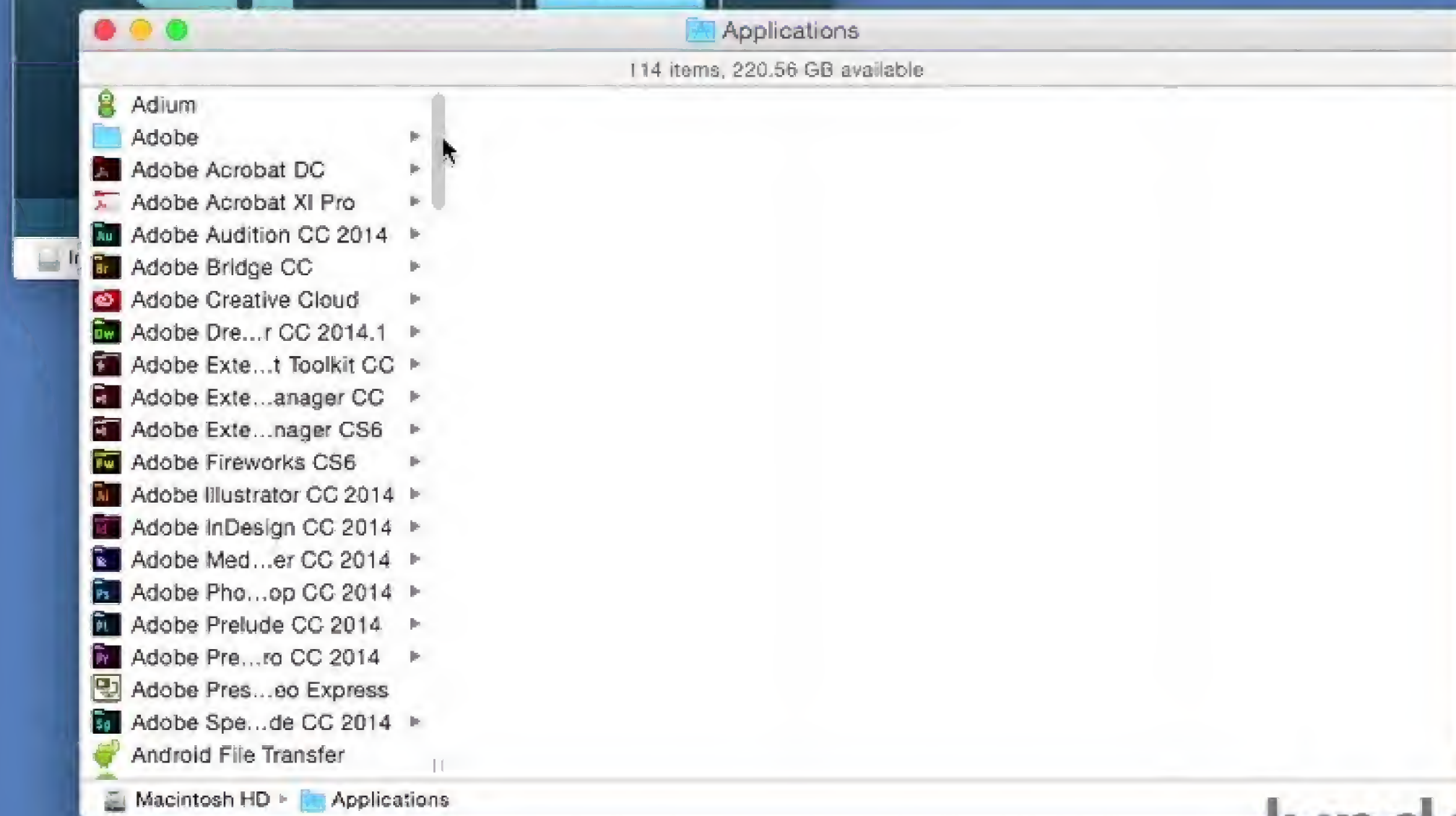


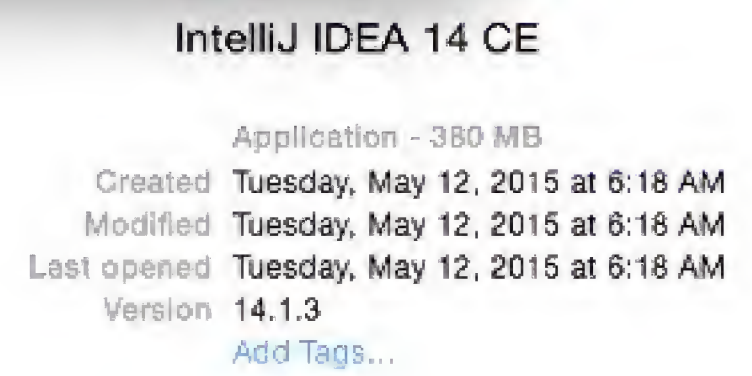
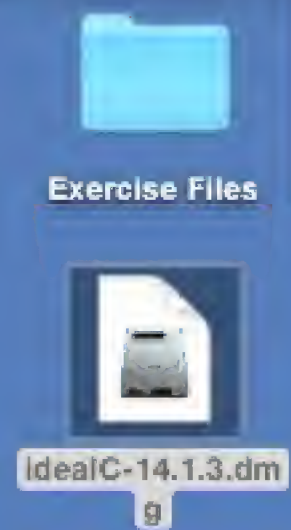
Exercise Files

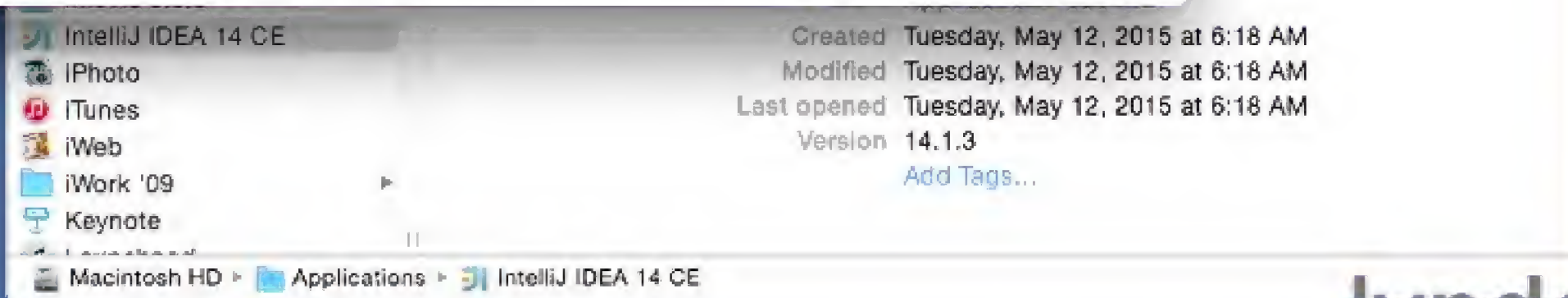
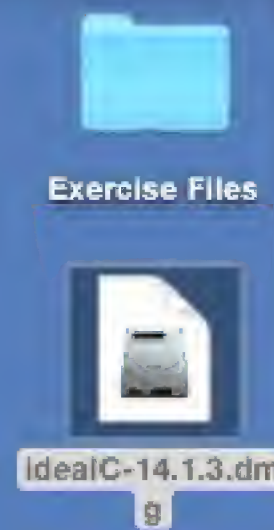


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 Modified Tuesday, May 12, 2015 at 6:18 AM  
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 Version 14.1.3  
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Project Settings

Project

Libraries

Platform Settings

SDKs

Global Libraries

Problems

Default Project Structure

Project SDK:

This SDK is default for all project modules.

A module specific SDK can be configured for each of the modules as required.

<No SDK>

New...

Edit

Project language level:

This language level is default for all project modules.

A module specific language level can be configured for each of the modules as required.

6 - @Override in interfaces

Project compiler output:

This path is used to store all project compilation results.

A directory corresponding to each module is created under this path.

This directory contains two subdirectories: Production and Test for production code and test sources, respectively.

A module specific compiler output path can be configured for each of the modules as required.

...

Cancel

Apply

OK

Exercise Files

IdealC-14.1.3.dm

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Project Settings

Project

Libraries

Platform Settings

SDKs

Global Libraries

Problems

Library

Applications

Library

opt

Software

System

Users

ColorSync

Components

Compositions

Contextual Menu Items

CoreMediaIO

Desktop Pictures

Developer

Dictionaries

DirectoryServices

Documentation

DropboxHelperTools

Extensions

Filesystems

Fonts

Frameworks

Google

Graphics

Image Capture

Input Methods

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ITunes

Java

New Folder

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Desktop Pictures

Developer

Dictionaries

DirectoryServices

Documentation

DropboxHelperTools

Extensions

Filesystems

Fonts

Frameworks

Google

Graphics

Image Capture

Input Methods

Internet Plug-Ins

ITunes

Java

New Folder

Cancel

Choose

Exercise Files

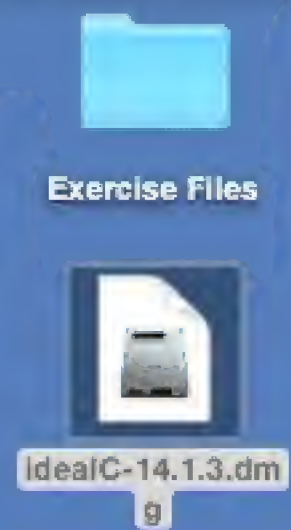
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Cancel Apply OK lynda.com





# BlueJ

A free Java Development Environment designed for beginners, used by millions worldwide. [Find out more...](#)

*"One of my favourite IDEs out there is BlueJ"*  
— James Gosling, creator of Java.



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Windows

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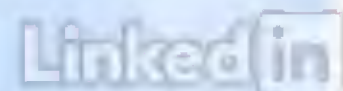
Created by **University of Kent**

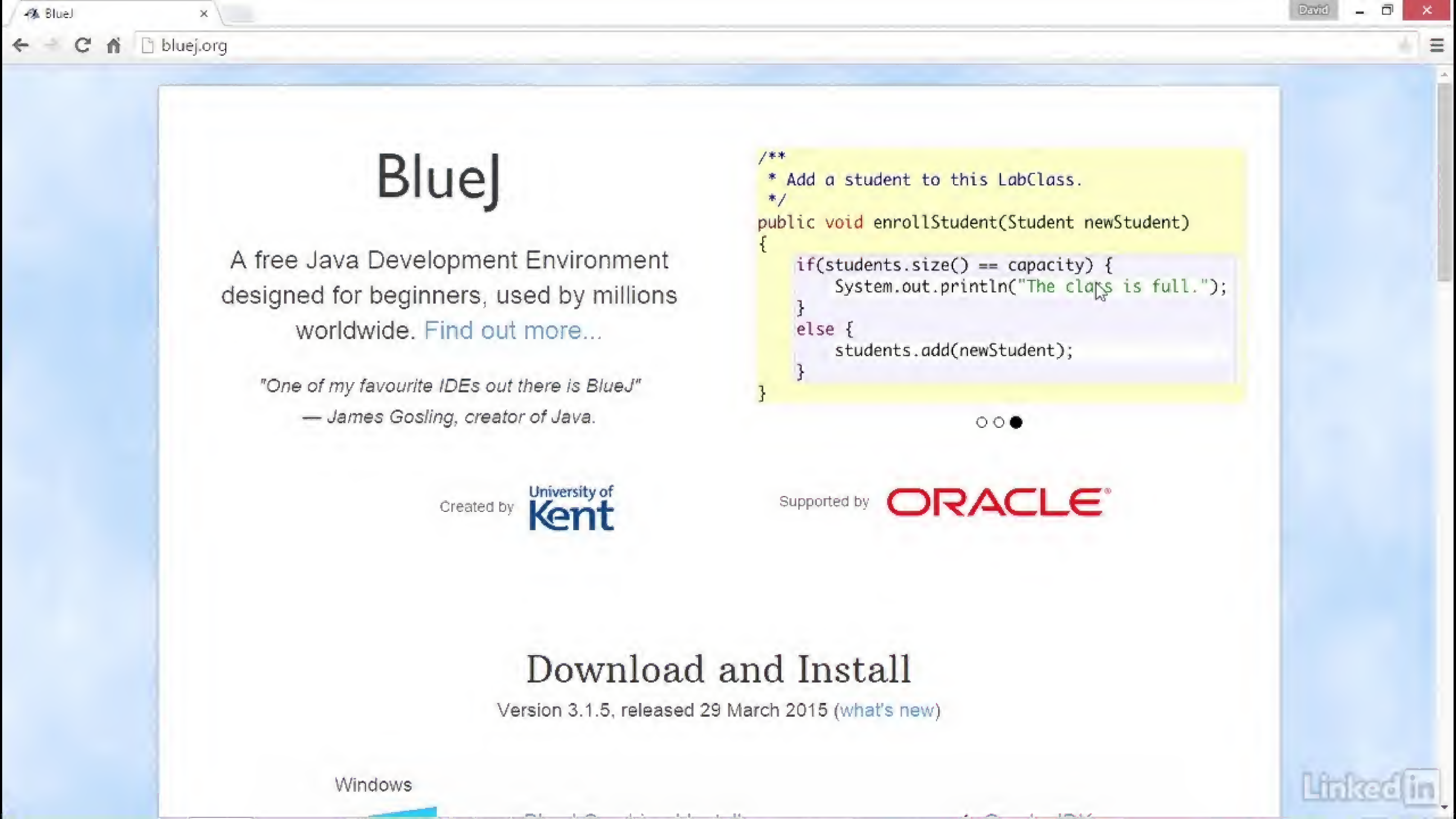
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— James Gosling, creator of Java.

Created by 

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```
/**
 * Add a student to this LabClass.
 */
public void enrollStudent(Student newStudent)
{
    if(students.size() == capacity) {
        System.out.println("The class is full.");
    }
    else {
        students.add(newStudent);
    }
}
```



## Download and Install

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Windows

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Mac OS X



10.7[Lion].3 and newer:  
BlueJ Installer  
(includes Oracle JDK)

OR

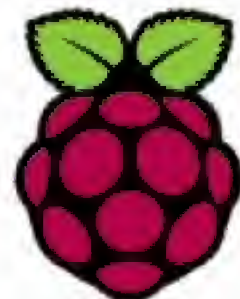
10.7[Lion].2 and older:  
BlueJ Installer  
(uses Apple JDK)

Ubuntu/Debian Linux



[BlueJ Installer](#)

Raspbian Linux



[BlueJ Installer](#)


See [this page](#) for information about using BlueJ on the Raspberry Pi.

BlueJ

David

bluej.org

Windows




BlueJ Combined Installer  
(includes JDK)

OR

1. Oracle JDK

2. BlueJ Installer

Mac OS X




10.7[Lion].3 and newer:  
BlueJ Installer  
(includes Oracle JDK)

OR


10.7[Lion].2 and older:  
BlueJ Installer  
(uses Apple JDK)

Ubuntu/Debian Linux

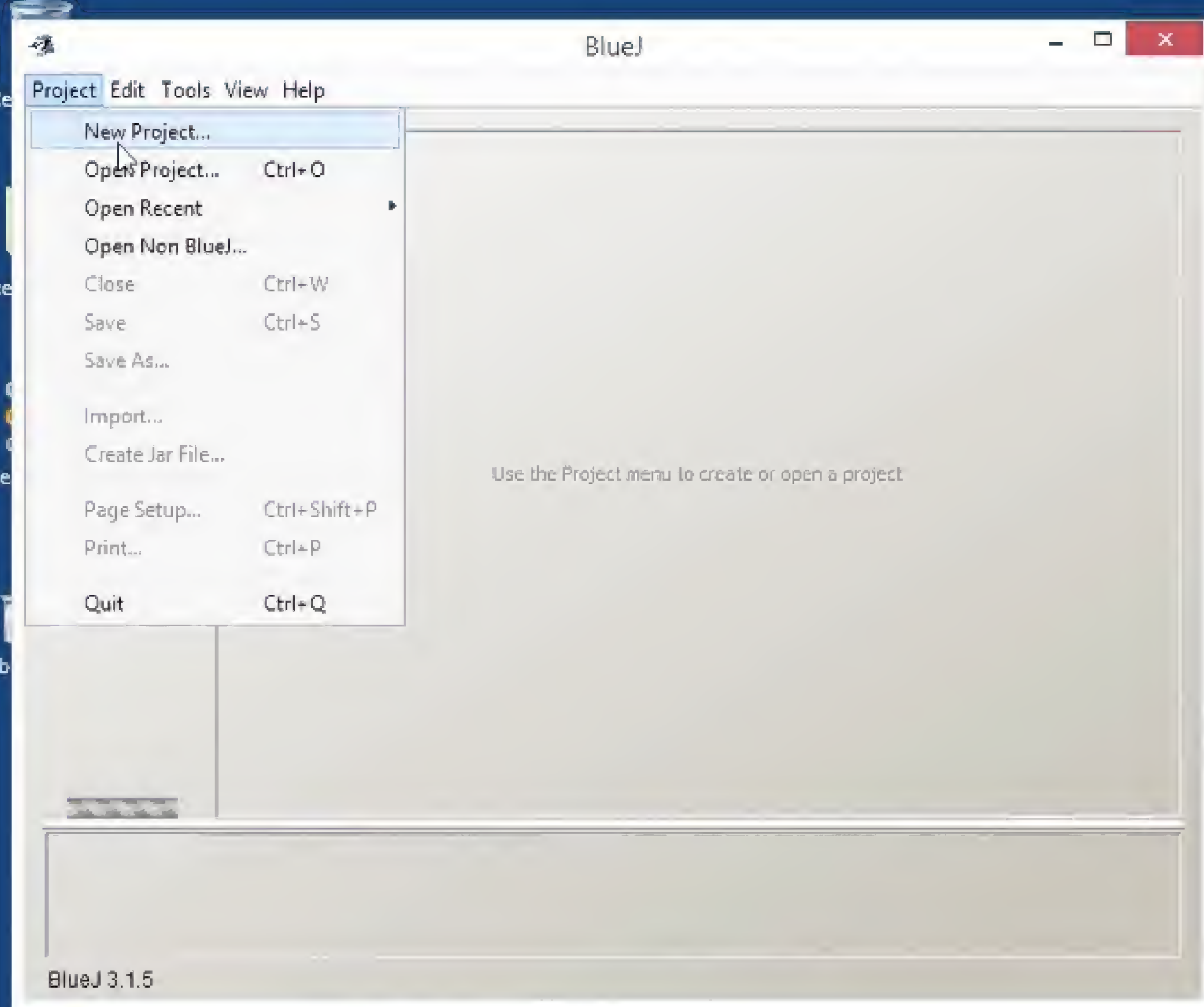


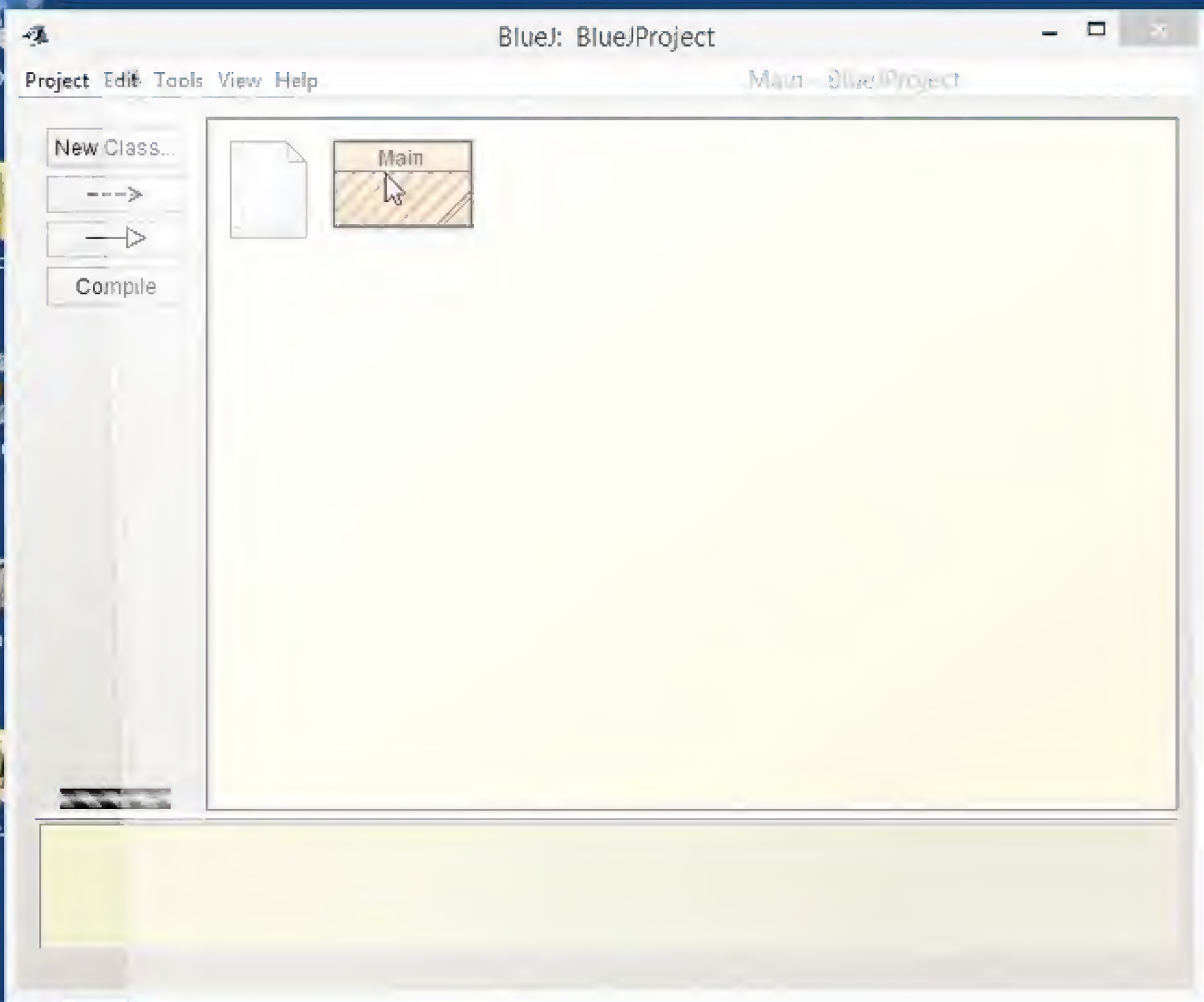
BlueJ Installer

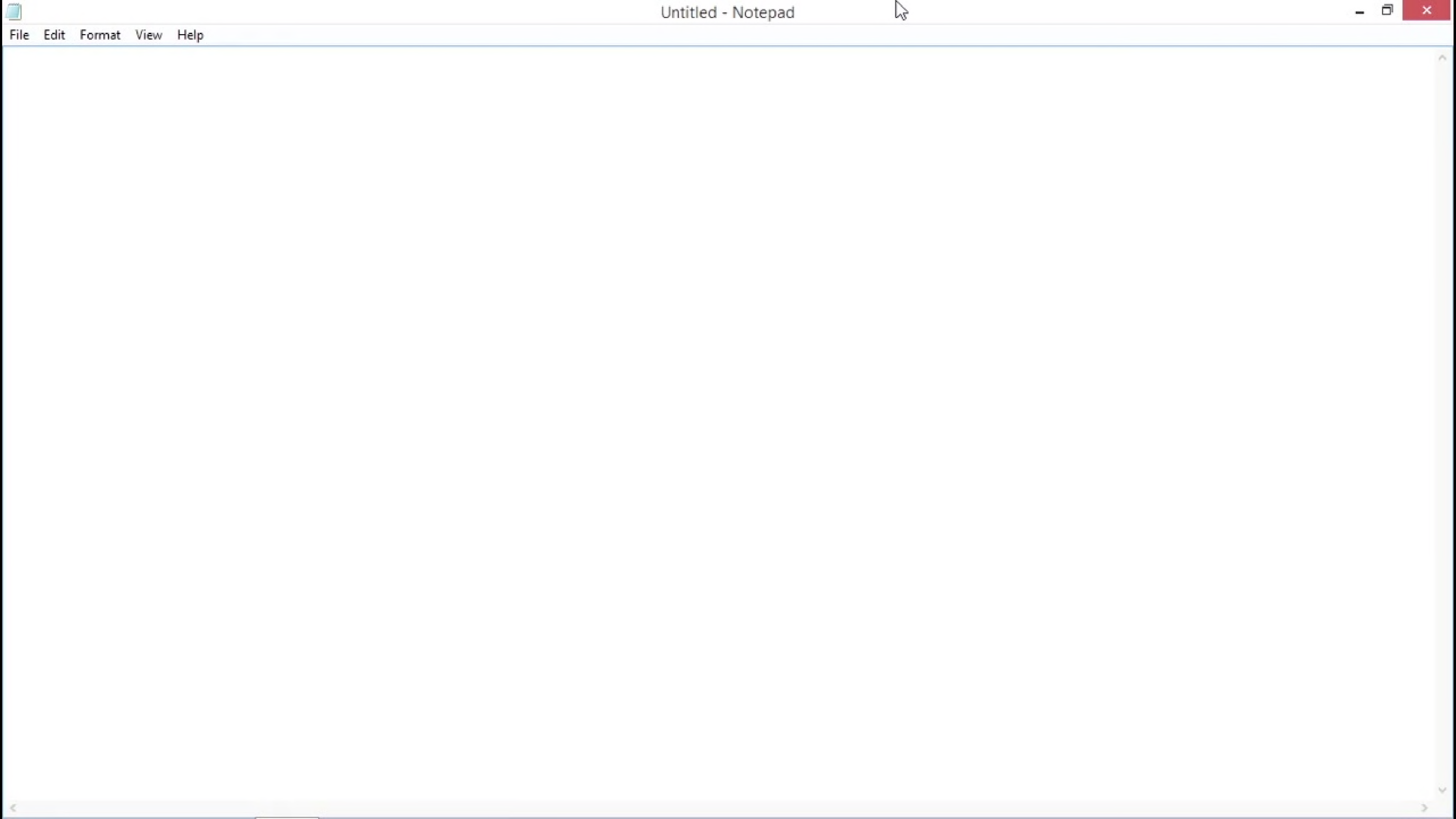
Raspbian Linux

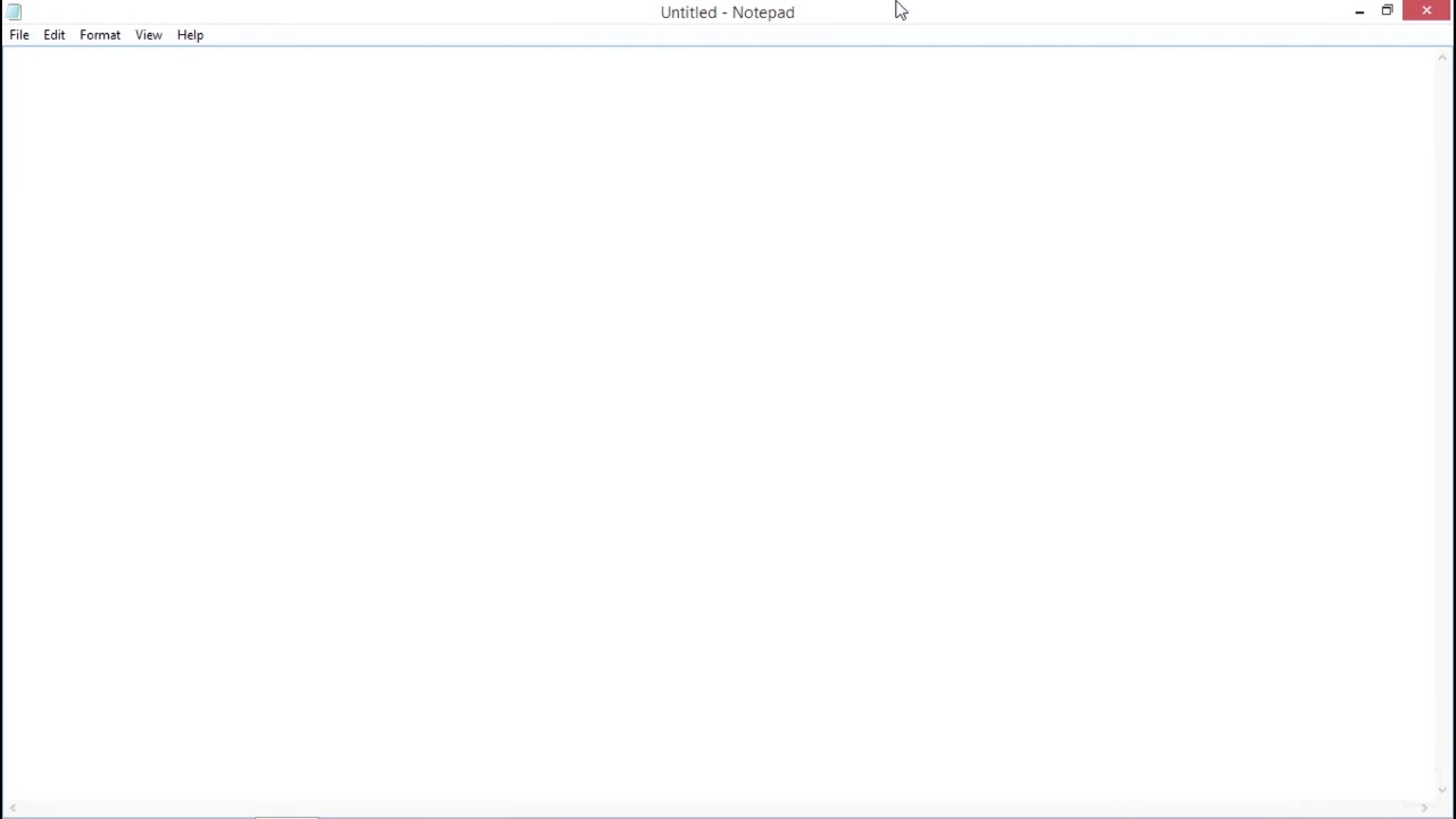


Linked in













public |



```
public class Main
```



```
public class Main {
```

```
}
```



```
public class Main {  
  
    public  
  
}
```



```
public class Main {  
    public static  
}
```

```
public class Main {
```

```
    public static void main|
```

```
}
```



```
public class Main {  
    public static void main(  
}
```

```
public class Main {  
    public static void main(String|  
}
```



```
public class Main {  
    public static void main(String[] args)  
}
```



```
public class Main {
```

```
    public static void main(String[] args) {
```

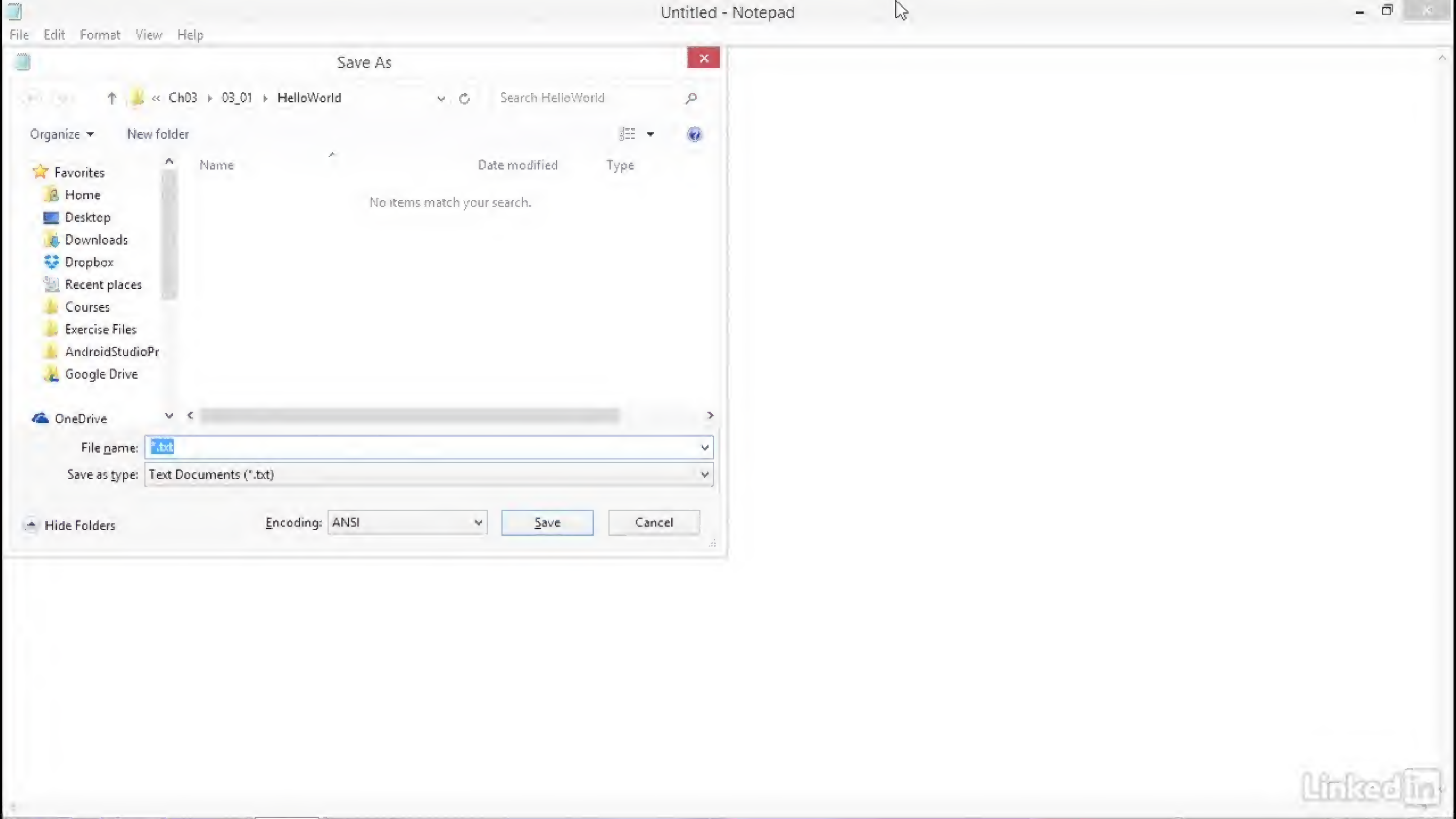
```
    }
```

```
}
```

```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("
```

```
    }  
}
```



Save As



<< Ch03 >> 03\_01 >> HelloWorld

Search HelloWorld



Organize New folder

- ★ Favorites
- Home
- Desktop
- Downloads
- Dropbox
- Recent places
- Courses
- Exercise Files
- AndroidStudioPr
- Google Drive

Name Date modified Type

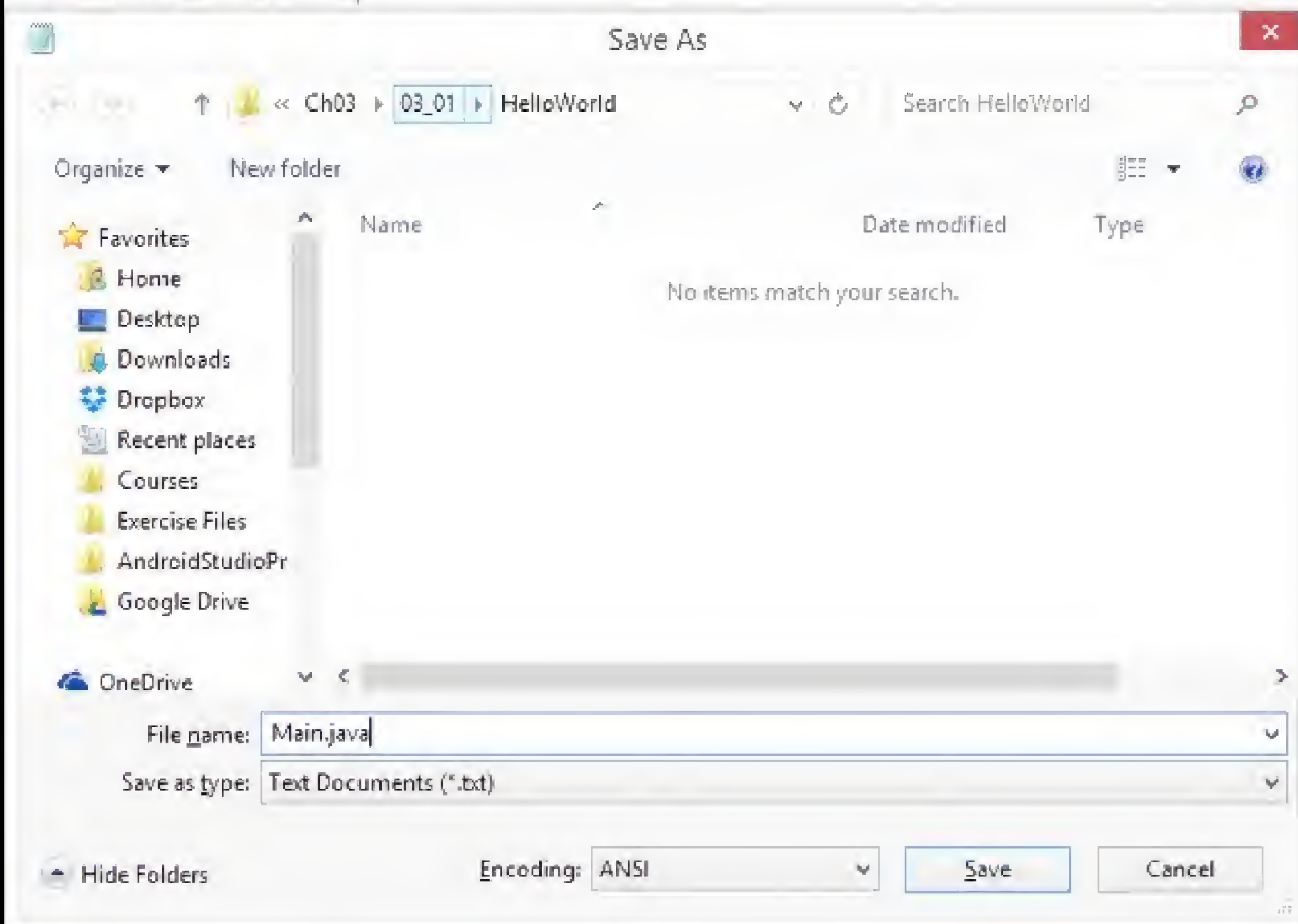
No items match your search.

OneDrive

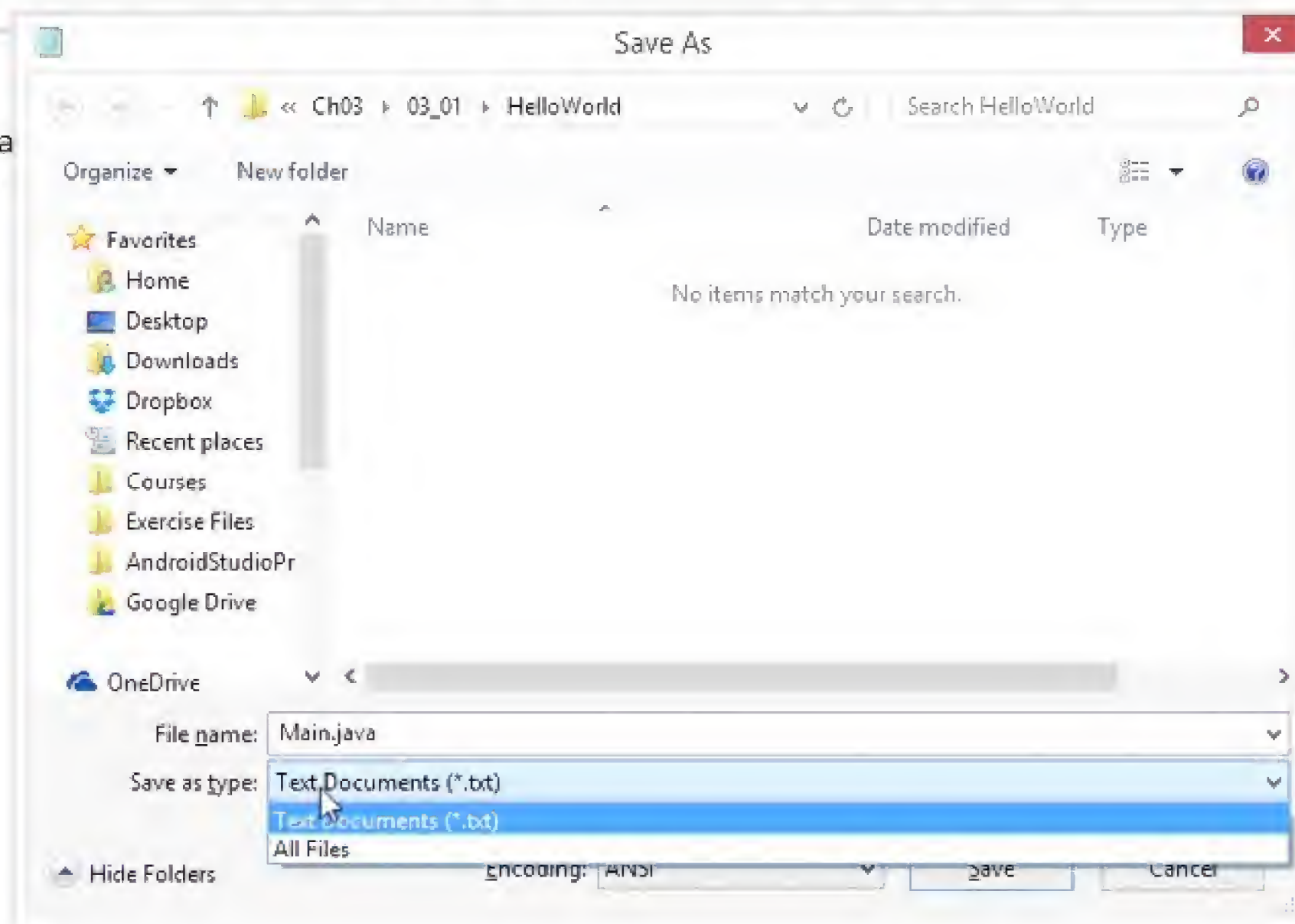
File name: .txt

Save as type: Text Documents (\*.txt)

Hide Folders Encoding: ANSI Save Cancel



```
public class Main {  
  
    public static void main(String[] a  
        System.out.println("Hello  
}  
}
```



## Command Prompt

Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.  
C:\Users\David>cd \_

## Command Prompt

Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.  
C:\Users\David>cd "Desktop\Exercise Files\Ch03\03\_01\HelloWorld"

## Command Prompt

```
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\David>cd "Desktop\Exercise Files\Ch03\03_01\HelloWorld"

C:\Users\David\Desktop\Exercise Files\Ch03\03_01\HelloWorld>dir
Volume in drive C is BOOTCAMP
Volume Serial Number is E017-4F3E

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03_01\HelloWorld

06/02/2015  02:37 PM    <DIR>          .
06/02/2015  02:37 PM    <DIR>          ..
06/02/2015  02:37 PM                117 Main.java
               1 File(s)                117 bytes
               2 Dir(s)  19,333,337,088 bytes free

C:\Users\David\Desktop\Exercise Files\Ch03\03_01\HelloWorld>javac
```

## Command Prompt

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld

```
06/02/2015  02:37 PM    <DIR>      .
06/02/2015  02:37 PM    <DIR>      ..
06/02/2015  02:37 PM                117 Main.java
               1 File(s)                117 bytes
               2 Dir(s)  19,333,337,088 bytes free
```

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>javac Main.java

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>dir

Volume in drive C is BOOTCAMP  
Volume Serial Number is E017-4F3E

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld

```
06/02/2015  02:39 PM    <DIR>      .
06/02/2015  02:39 PM    <DIR>      ..
06/02/2015  02:39 PM                418 Main.class
06/02/2015  02:37 PM                117 Main.java
               2 File(s)                 535 bytes
               2 Dir(s)  19,326,963,712 bytes free
```

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>

## Command Prompt

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld

```
06/02/2015  02:37 PM    <DIR>      .
06/02/2015  02:37 PM    <DIR>      ..
06/02/2015  02:37 PM                117 Main.java
                1 File(s)            117 bytes
                2 Dir(s)  19,333,337,088 bytes free
```

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>javac Main.java

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>dir

Volume in drive C is BOOTCAMP  
Volume Serial Number is E017-4F3E

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld

```
06/02/2015  02:39 PM    <DIR>      .
06/02/2015  02:39 PM    <DIR>      ..
06/02/2015  02:39 PM                418 Main.class
06/02/2015  02:37 PM                117 Main.java
                2 File(s)             535 bytes
                2 Dir(s)  19,326,963,712 bytes free
```

C:\Users\David\Desktop\Exercise Files\Ch03\03\_01\HelloWorld>java Main



Recycle Bin



Exercise Files

Arguments

File Home Share View

Exercise Files > Ch03 > 03\_02 > Arguments

Search Arguments

	Name	Date modified	Type	Size
★ Favorites				
Home	Main	6/2/2015 2:37 PM	JAVA File	1 KB
Desktop				
Downloads				
Dropbox				
Recent places				
Courses				
Exercise Files				
AndroidStudioProjects				
Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

1 item



Recycle Bin



Exercise Files

Arguments

File Home Share View

Exercise Files > Ch03 > 03\_02 > Arguments

Search Arguments

	Name	Date modified	Type	Size
★ Favorites				
Home	Main	6/2/2015 2:37 PM	JAVA File	1 KB
Desktop				
Downloads				
Dropbox				
Recent places				
Courses				
Exercise Files				
AndroidStudioProjects				
Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

1 item



Recycle Bin



Exercise Files

Arguments

File Home Share View

Exercise Files > Ch03 > 03\_02 > Arguments

Search Arguments

Name	Date modified	Type	Size
Main	6/2/2015 2:37 PM	JAVA File	1 KB

Type: JAVA File  
Size: 117 bytes  
Date modified: 6/2/2015 2:37 PM

1 item 1 item selected 117 bytes

```
public class Main {  
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
    }  
}
```

```
public class Main {  
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
    }  
}
```

```
public class Main {  
  
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```

```
public class Main {
```

```
    public static void ma  
        System.out.pr  
        System.out.pr  
}  
}
```

Arguments

File

Home

Share

View



Exercise Files &gt; Ch03 &gt; 03\_02 &gt; Arguments



Search Arguments



C:\Windows\System32\cmd.exe



Size

1 KB

```
Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>dir
```

```
Volume in drive C is BOOTCAMP
```

```
Volume Serial Number is E017-4F3E
```

```
Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments
```

```
06/02/2015  02:43 PM    <DIR>
```

```
06/02/2015  02:43 PM    <DIR>
```

```
06/02/2015  02:59 PM                149 Main.java
```

```
1 File(s)                149 bytes
```

```
2 Dir(s)  19,262,611,456 bytes free
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java
```

```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```

Arguments

File

Home

Share

View



Exercise Files &gt; Ch03 &gt; 03\_02 &gt; Arguments



Search Arguments



C:\Windows\System32\cmd.exe



Size

1 KB

1 KB

Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments>dir

Volume in drive C is BOOTCAMP

Volume Serial Number is E017-4F3E

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments

06/02/2015 02:43 PM <DIR>

06/02/2015 02:43 PM <DIR>

06/02/2015 02:59 PM 149 Main.java

1 File(s) 149 bytes

2 Dir(s) 19,262,611,456 bytes free

C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments>javac Main.java

C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments>java Main MyArgument

Hello from Java!

MyArgument

C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments>



```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```

Arguments

File

Home

Share

View



Exercise Files &gt; Ch03 &gt; 03\_02 &gt; Arguments



Search Arguments



C:\Windows\System32\cmd.exe



Size

1 KB

1 KB

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>dir
```

```
Volume in drive C is BOOTCAMP
```

```
Volume Serial Number is E017-4F3E
```

```
Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments
```

```
06/02/2015  02:43 PM    <DIR>
```

```
06/02/2015  02:43 PM    <DIR>
```

```
06/02/2015  02:59 PM                149 Main.java
```

```
1 File(s)                149 bytes
```

```
2 Dir(s)  19,262,611,456 bytes free
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>javac Main.java
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main MyArgument
```

```
Hello from Java!
```

```
MyArgument
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main My Argument
```

```
Hello from Java!
```

```
My
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>
```

```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```

Arguments

File

Home

Share

View



Exercise Files &gt; Ch03 &gt; 03\_02 &gt; Arguments



Search Arguments



C:\Windows\System32\cmd.exe



Size

Directory of C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments

06/02/2015 02:43 PM &lt;DIR&gt;

06/02/2015 02:43 PM &lt;DIR&gt;

06/02/2015 02:59 PM 149 Main.java

1 File(s) 149 bytes

2 Dir(s) 19,262,611,456 bytes free

C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments&gt;javac Main.java

C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments&gt;java Main MyArgument

Hello from Java!

MyArgument

C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments&gt;java Main My Argument

Hello from Java!

My

C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments&gt;java Main "My Argument"

t"

Hello from Java!

My Argument

C:\Users\David\Desktop\Exercise Files\Ch03\03\_02\Arguments&gt;

1 KB

1 KB

```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```

Arguments

File

Home

Share

View



Exercise Files &gt; Ch03 &gt; 03\_02 &gt; Arguments



Search Arguments



C:\Windows\System32\cmd.exe



Size

```
1 File(s)          149 bytes  
2 Dir(s)  19,262,611,456 bytes free
```

1 KB

1 KB

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>javac Main.java
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main MyArgument  
Hello from Java!  
MyArgument
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main My Argument  
Hello from Java!  
My
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main "My Argument"  
Hello from Java!  
My Argument
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>java Main  
Hello from Java!  
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 0  
    at Main.main(Main.java:5)
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_02\Arguments>
```

```
public class Main {  
  
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
}
```



Recycle Bin



Exercise Files

File

Home

Share

View

Exercise Files > Ch03 > 03\_03 > Packages

Search Packages

	Name	Date modified	Type	Size
★ Favorites				
Home	Main	6/2/2015 2:59 PM	JAVA File	1 KB
Desktop				
Downloads				
Dropbox				
Recent places				
Courses				
Exercise Files				
AndroidStudioProjects				
Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

1 item



Recycle Bin



Exercise Files

File

Home

Share

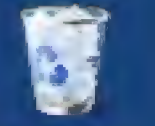
View

Exercise Files > Ch03 > 03\_03 > Packages

Search Packages

	Name	Date modified	Type	Size
★ Favorites				
Home	Main	6/2/2015 2:59 PM	JAVA File	1 KB
Desktop				
Downloads				
Dropbox				
Recent places				
Courses				
Exercise Files				
AndroidStudioProjects				
Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

1 item



Recycle Bin



Exercise Files

File

Home

Share

View

Exercise Files

Ch03

03\_03

Packages

Search Packages

	Name	Date modified	Type	Size
★ Favorites				
🏠 Home	📁 Main	6/2/2015 2:59 PM	JAVA File	1 KB
🖥 Desktop				
📁 Downloads				
🔄 Dropbox				
📁 Recent places				
📁 Courses				
📁 Exercise Files				
📁 AndroidStudioProjects				
📁 Google Drive				
☁ OneDrive				
👤 Homegroup				
💻 This PC				
📁 Libraries				
🌐 Network				

1 item



Recycle Bin



Exercise Files

File Explorer window titled "Packages" showing the path: Exercise Files > Ch03 > 03\_03 > Packages.

Search: Search Packages

Name	Date modified	Type	Size
Main	6/2/2015 2:59 PM	JAVA File	1 KB

Context menu for the selected file "Main":

- Open
- Edit
- Move to Dropbox
- Open with
- Share with
- TextPad
- Send to
- Cut
- Copy
- Create shortcut
- Delete
- Rename
- Properties

1 item 1 item selected 149 bytes



Recycle Bin



Exercise Files



Main - Notepad

File Edit Format View Help

```
package |  
  
public class Main {  
  
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }  
  
}
```



Recycle Bin



Exercise Files



Main - Notepad

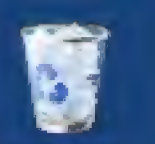
File Edit Format View Help

```
package com.example.java
```

```
public class Main {
```

```
    public static void main(String[] args) {  
        System.out.println("Hello from Java!");  
        System.out.println(args[0]);  
    }
```

```
}
```



Recycle Bin



Exercise Files

File

Home

Share

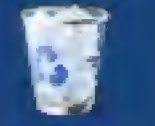
View

Exercise Files > Ch03 > 03\_03 > Packages

Search Packages

	Name	Date modified	Type	Size
★ Favorites				
Home	Main	6/2/2015 3:23 PM	JAVA File	1 KB
Desktop				
Downloads				
Dropbox				
Recent places				
Courses				
Exercise Files				
AndroidStudioProjects				
Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

1 item   1 item selected   178 bytes



Recycle Bin



Exercise Files

example

File Home Share View

Exercise Files > Ch03 > 03\_03 > Packages > com > example

Search example

Name	Date modified	Type	Size
This folder is empty.			

AMD Catalyst Control Center

View

Sort by

Group by

Refresh

Customize this folder...

Paste

Paste shortcut

Undo Rename

Ctrl+Z

Move to Dropbox

Share with

New

Properties

Folder

0 items



Recycle Bin



Exercise Files

java

File Home Share View

« CH03 » 03\_03 » Packages » com » example » java Search java

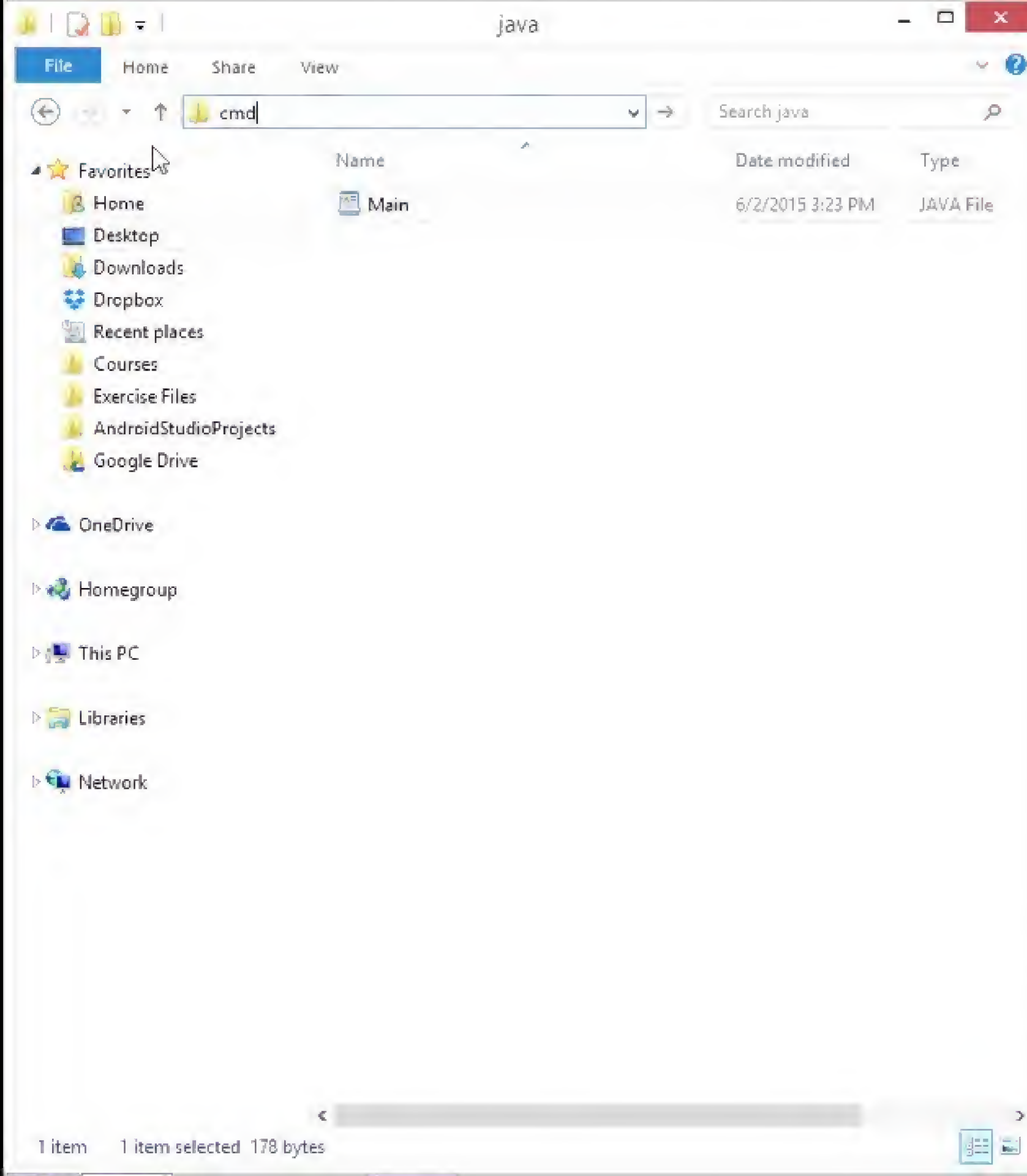
	Name	Date modified	Type	Size
★ Favorites				
Home	Main	6/2/2015 3:23 PM	JAVA File	1 KB
Desktop				
Downloads				
Dropbox				
Recent places				
Courses				
Exercise Files				
AndroidStudioProjects				
Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

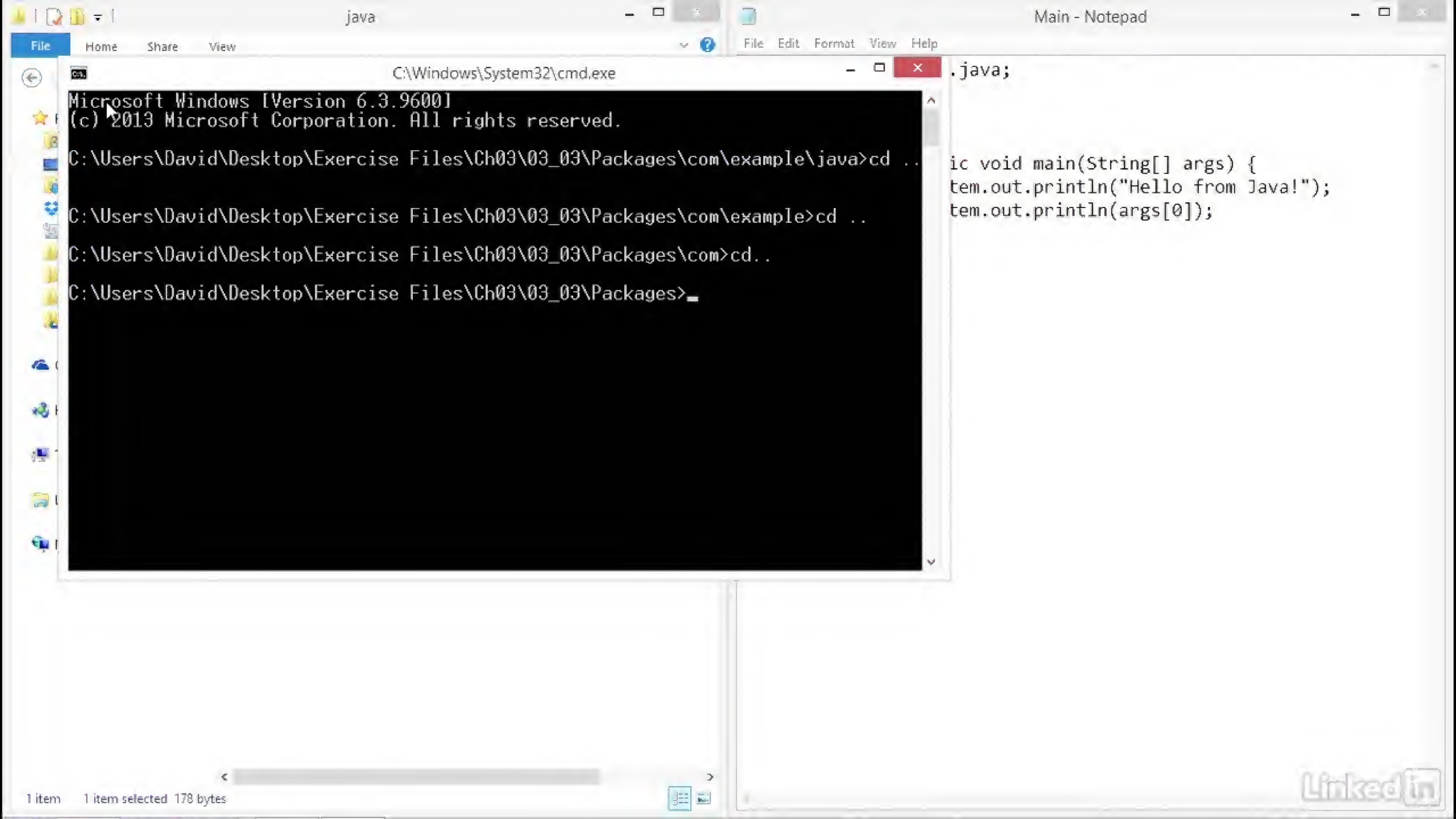
1 item

Search Packages

modified	Type	Size
3:23 PM	File folder	

- This PC
- Libraries
- Network





C:\Windows\System32\cmd.exe

.java;

Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.

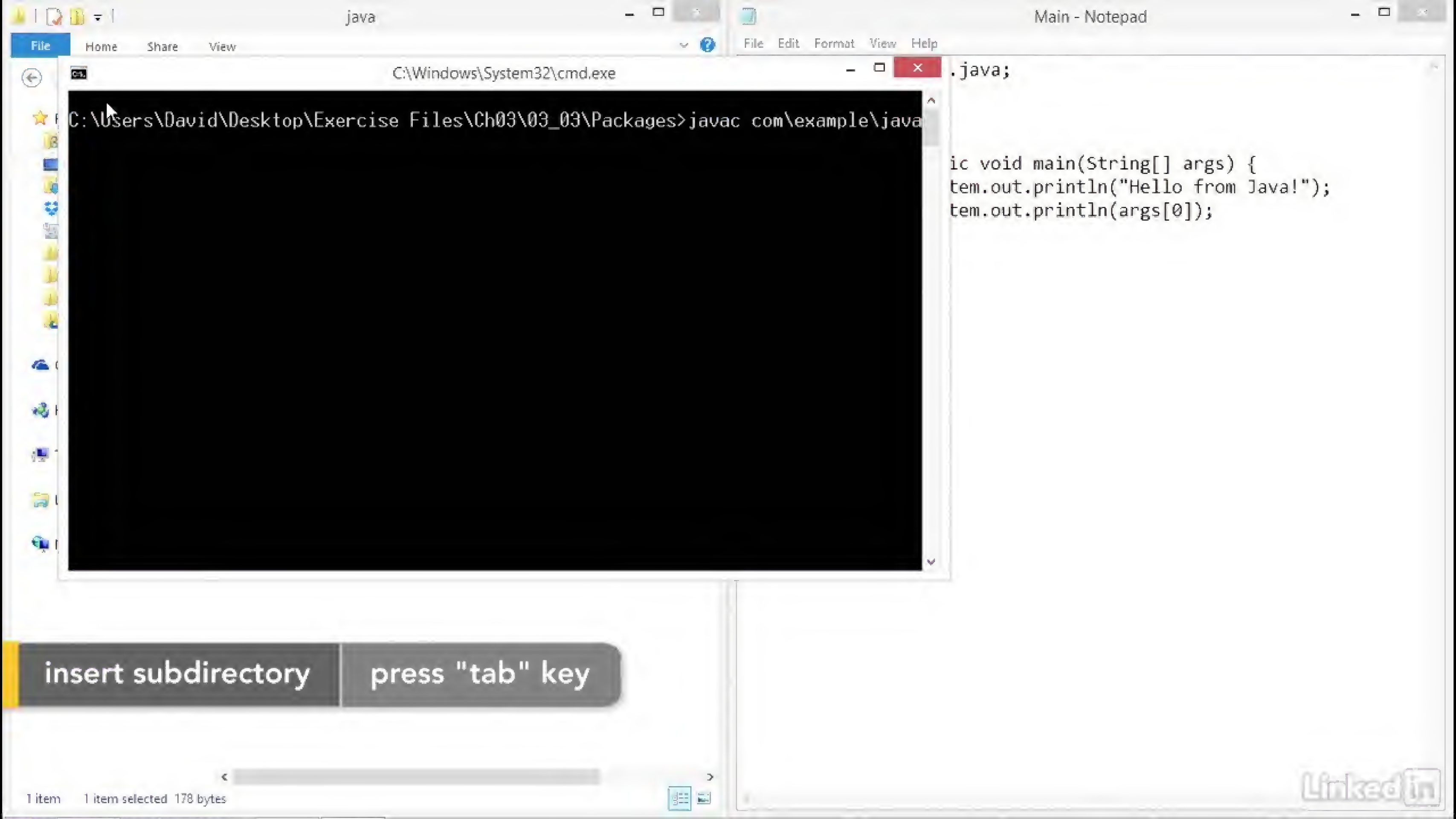
C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages\com\example\java>cd ..

C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages\com\example>cd ..

C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages\com>cd..

C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages>\_

```
ic void main(String[] args) {  
    tem.out.println("Hello from Java!");  
    tem.out.println(args[0]);  
}
```



java

Main - Notepad

File

Home

Share

View

File

Edit

Format

View

Help

C:\Windows\System32\cmd.exe

.java;

C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages>javac com\example\java

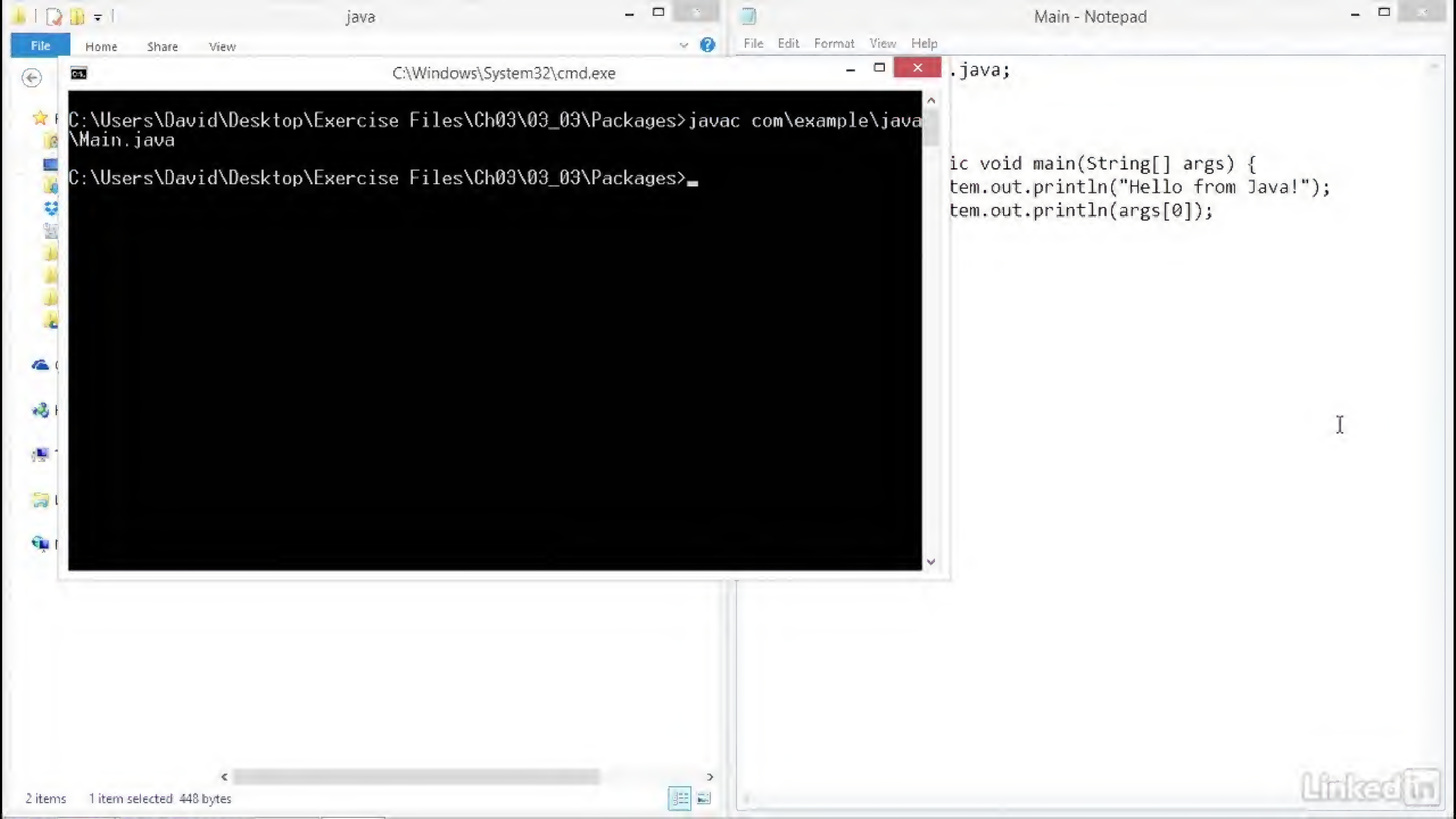
```
ic void main(String[] args) {  
tem.out.println("Hello from Java!");  
tem.out.println(args[0]);
```

insert subdirectory

press "tab" key

1 item 1 item selected 178 bytes

LinkedIn



java

Main - Notepad

File

Home

Share

View

File

Edit

Format

View

Help

C:\Windows\System32\cmd.exe

.java;

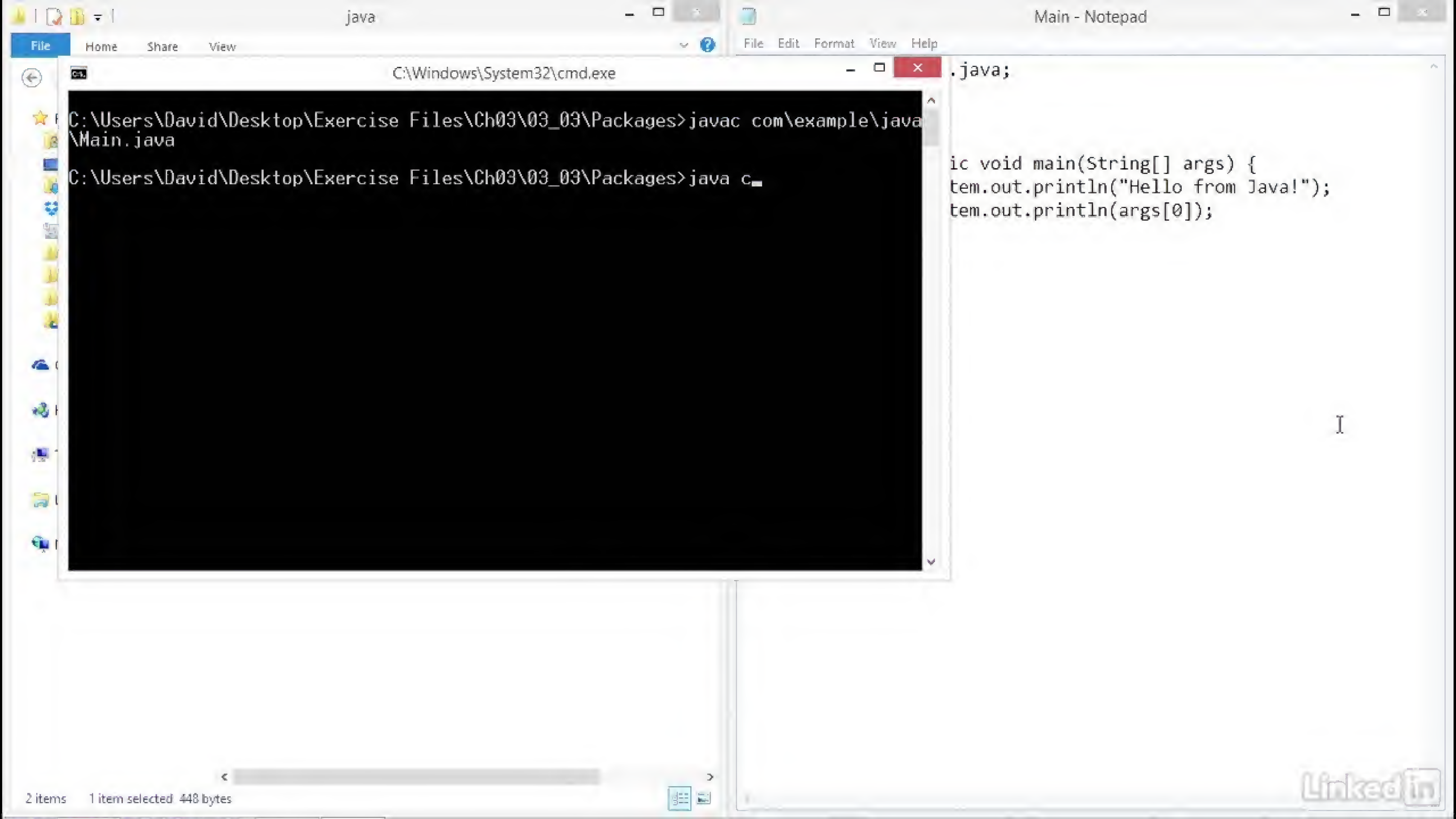
C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages>javac com\example\java\Main.java

C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages>\_

```
ic void main(String[] args) {  
    tem.out.println("Hello from Java!");  
    tem.out.println(args[0]);  
}
```

2 items 1 item selected 448 bytes

LinkedIn



java

Main - Notepad

File

Home

Share

View

File

Edit

Format

View

Help

C:\Windows\System32\cmd.exe

.java;

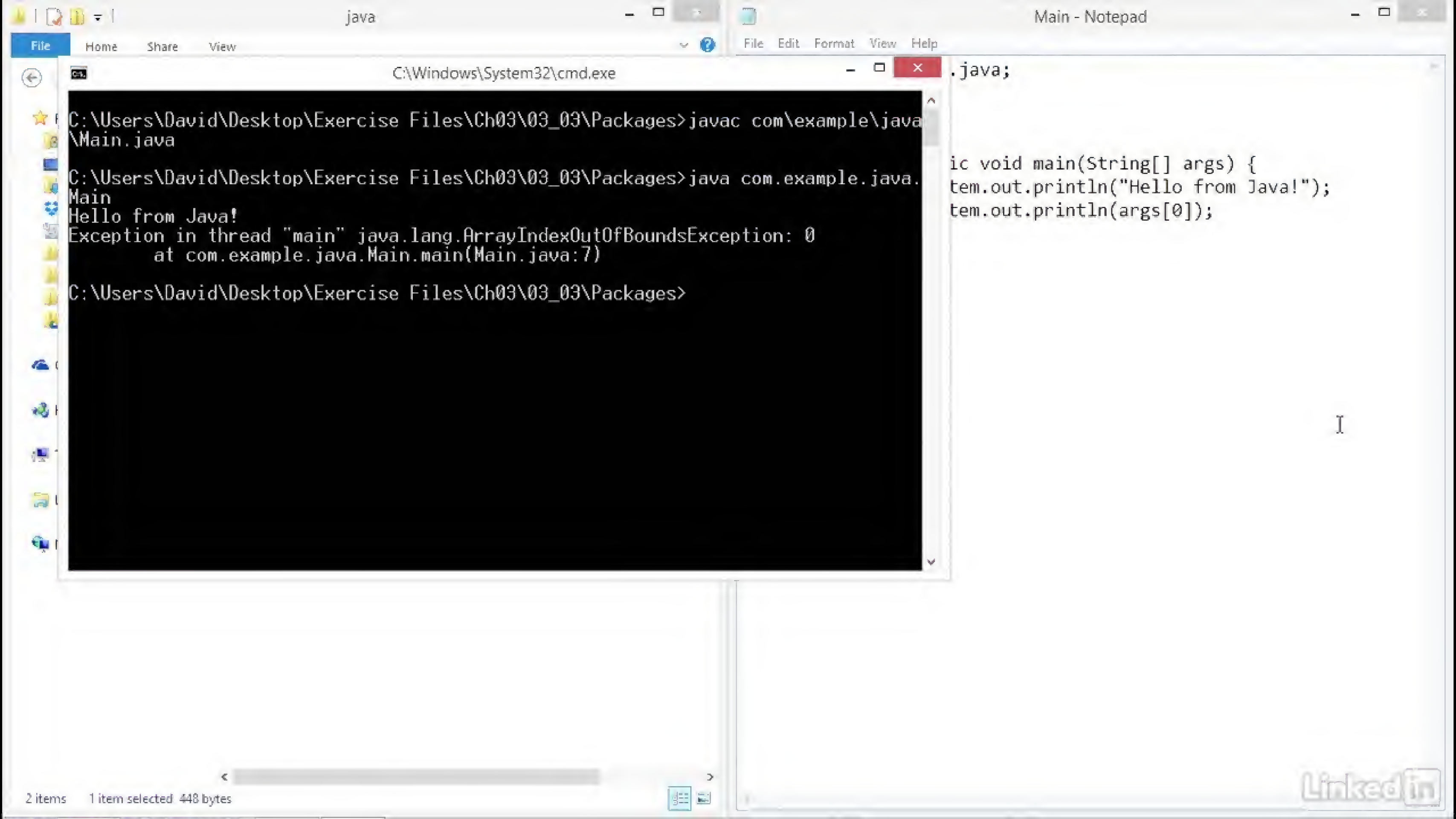
C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages>javac com\example\java\Main.java

C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages>java c\_

```
ic void main(String[] args) {  
    tem.out.println("Hello from Java!");  
    tem.out.println(args[0]);  
}
```

2 items 1 item selected 448 bytes

LinkedIn



java

Main - Notepad

File Home Share View

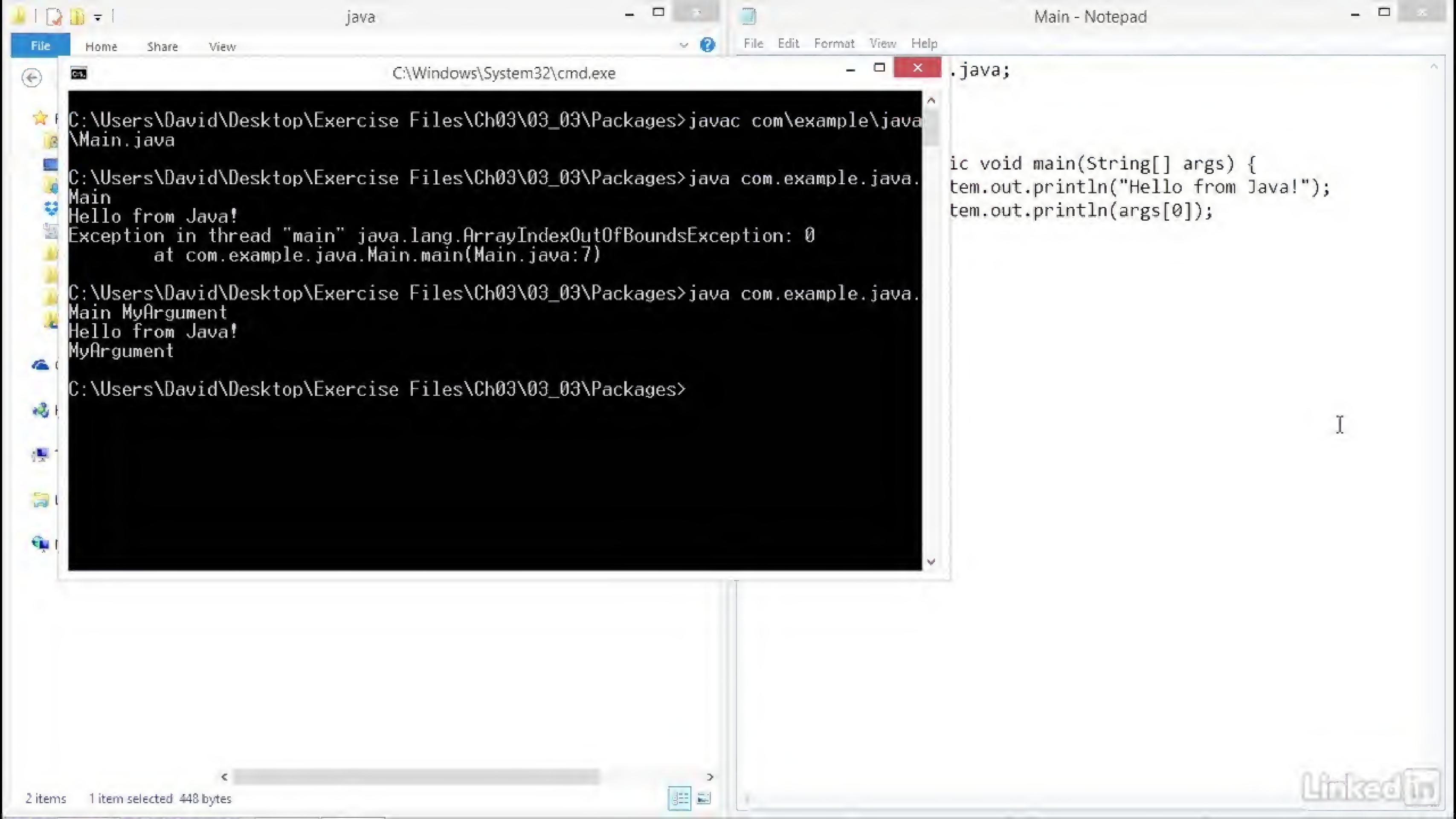
File Edit Format View Help

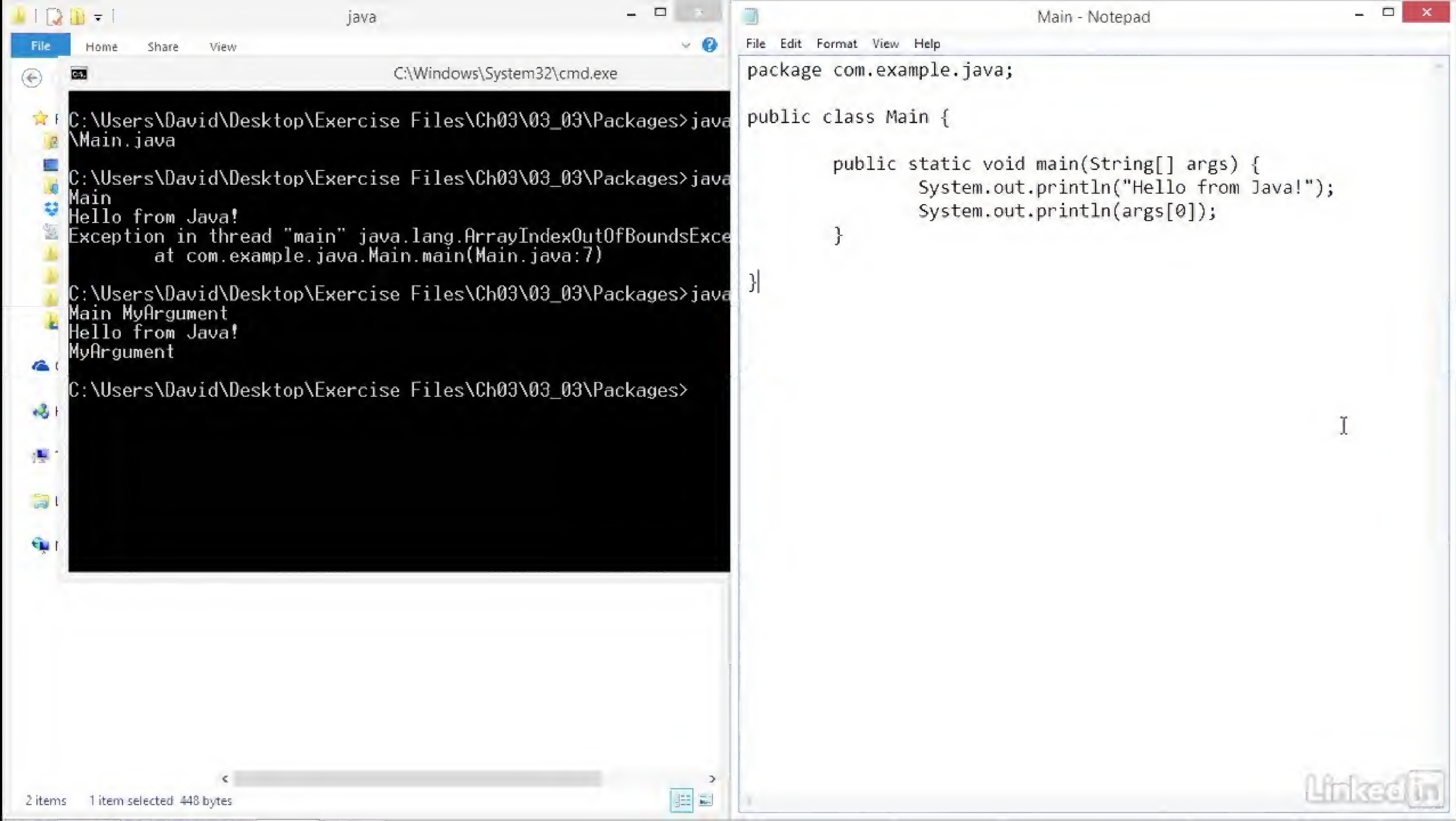
C:\Windows\System32\cmd.exe

.java;

C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages>javac com\example\java  
\Main.java  
C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages>java com.example.java.  
Main  
Hello from Java!  
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 0  
at com.example.java.Main.main(Main.java:7)  
C:\Users\David\Desktop\Exercise Files\Ch03\03\_03\Packages>

```
ic void main(String[] args) {  
    tem.out.println("Hello from Java!");  
    tem.out.println(args[0]);  
}
```





```
package com.example.java;

public class Main {

    public static void main(String[] args) {
        System.out.println("Hello from Java!");
        System.out.println(args[0]);
    }

}
```

```
C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>java Main
Hello from Java!
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 0
    at com.example.java.Main.main(Main.java:7)

C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>java Main MyArgument
Hello from Java!
MyArgument

C:\Users\David\Desktop\Exercise Files\Ch03\03_03\Packages>
```



Recycle Bin



Exercise Files



Welcome to IntelliJ IDEA



# IntelliJ IDEA

Version 14.1.3


 Create New Project

 Import Project

 Open

 Check out from Version Control ▾

 Configure ▾

 Get Help ▾

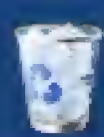


Recycle Bin



Exercise Files





Recycle Bin



Exercise Files





Recycle Bin



Exercise Files

Java

Android

Java FX

IntelliJ Platform Plugin

Maven

Gradle

Groovy

Griffon

Empty Project

Project SDK: 1.8 (java version "1.8.0\_45")

New...

Additional Libraries and Frameworks:

☐ Groovy

Use library: [No library selected]

Create...

Error: library is not specified

Previous

Next

Cancel



Help



Recycle Bin




Exercise Files

New Project

Project name:

Project location:



Base package:

Previous

Finish

Cancel

Help



Recycle Bin



Exercise Files

New Project

Project name:

IDEAProject

Project location:

C:\Users\David\Desktop\Exercise Files\Ch03\03\_04

...

Base package:

com.company

Previous

Finish

Cancel

Help



Exercise Files > Ch03 > 03\_04



Recycle Bin



Exercise Files

New Project

Project name:

IDEAProject

Project location:

C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject

...

Base package:

com.ex

Previous

Finish

Cancel


Help



Recycle Bin




Exercise Files


New Project

Project name: IDEAProject

Project location: C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject

Base package: com.example.java

Directory Does Not Exist



The project file directory  
"C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject"  
does not exist. It will be created by IntelliJ IDEA.

OK

Cancel

Previous

Finish

Cancel

Help

IDEAProject



Main



Project



Main.java



IDEAProject (C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject) com.example.java;

External Libraries

```
2
3 public class Main {
4
5     public static void main(String[] args) {
6         // write your code here
7     }
8 }
9
```



CRLF windows-1252



```
1 package com.example.java;  
2  
3 public class Main {  
4  
5     public static void main(String[] args) {  
6         // write your code here  
7     }  
8 }  
9
```



File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

- New
- Open...
- Reopen Project
- Close Project
- Settings... Ctrl+Alt+S
- Project Structure... Ctrl+Alt+Shift+S
- Other Settings
- Import Settings...
- Export Settings...
- Export to Eclipse...
- Save All Ctrl+S
- Synchronize Ctrl+Alt+Y
- Invalidate Caches / Restart...
- Export to HTML...
- Print...
- Add to Favorites
- File Encoding
- Line Separators
- Make File Read-only
- Power Save Mode
- Exit



Main.java x

Exercise Files\Ch03\03\_04\IDEAProject

```
1 package com.example.java;  
2  
3 public class Main {  
4  
5     public static void main(String[] args) {  
6         // write your code here  
7     }  
8  
9
```



Main ▾

IDEAProject

Project

IDEAProject (C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject) > External Libraries

Main.java x

1 package com.example.java;  
2  
3 public class Main {  
4  
5 public static void main(String[] args) {  
6 // write your code here  
7 }  
8 }  
9

Main

```

1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         Sys
7     }
8
9

```

System (java.lang)

- SystemColor (java.awt)
- SystemFlavorMap (java.awt.datatransfer)
- SysexMessage (javax.sound.midi)
- SYSTEM\_EXCEPTION (org.omg.PortableInterchangeException)
- SystemTray (java.awt)
- SystemTrayPeer (java.awt.peer)
- SystemColorAccessor (java.awt.ColorAccessor)
- SystemException (org.omg.CORBA)
- SystemIcon (sun.awt.shell.WindowsShellFolderIcon)
- SystemMenuBar (javax.swing.JMenuBar)

Ctrl+Down and Ctrl+Up will move caret down and up in the editor >>

```
1 package com.example.java;  
2  
3 public class Main {  
4  
5     public static void main(String[] args) {  
6         Sys  
7     }  
8  
9 }
```

System (java.lang)  
SystemColor (java.awt)  
SystemFlavorMap (java.awt.datatransfer)  
SysErrorMessage (javax.sourmim)  
SYSTEM\_EXCEPTION (org.omg.PortableInterfac)  
SystemTray (java.awt)  
SystemTrayPeer (java.awt.tray)  
SystemColorAccessor (sun.awt.AWTAccessor)  
SystemException (org.omg.CORBA)  
SystemIcon (sun.awt.shell.WindowsShellFactory)  
SystemMenuBar (sun.awt.shell.WindowsShellFactory)  
Ctrl+Down and Ctrl+Up will move caret down and up in the editor >>

```

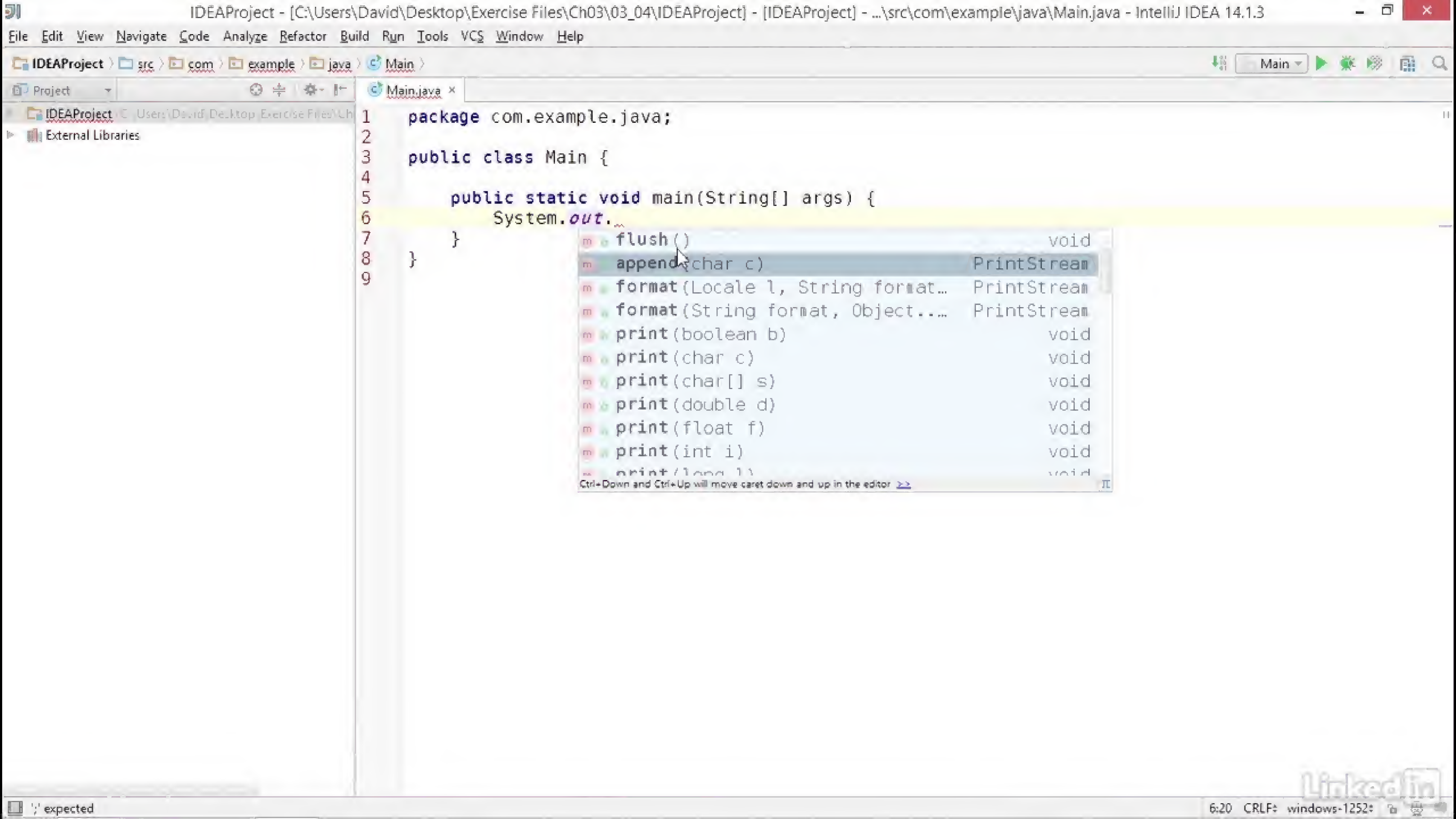
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out|
7     }
8 }
9

```

out PrintStream

setOut(PrintStream out) void

Ctrl+Down and Ctrl+Up will move caret down and up in the editor >>



```

1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println...
7     }
8 }
9

```

println()

void

println(boolean x)

void

println(char x)

void

println(char[] x)

void

println(double x)

void

println(float x)

void

println(int x)

void

println(long x)

void

println(Object x)

void

println(String x)

void

Ctrl+Down and Ctrl+Up will move caret down and up in the editor >>

IDEAProject C:\Users\David\Desktop\Exercise Files\Ch03\03\_04\IDEAProject  
External Libraries

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from ID");
7     }
8 }
9
```

- <no parameters>
- boolean x
- char x
- int x
- long x
- float x
- double x
- @NotNull char[] x
- String x
- @Nullable Object x

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7     }
8
9 }
```



Inject language or reference ▶

1

2

3

4

5

6

7

8

9

Run 'Main'

Debug 'Main'

Run 'Main' with Coverage

Run...

Debug...

Edit Configurations...

Stop

Reload Changed Classes

Step Over

Force Step Over

Step Into

Force Step Into

Smart Step Into

Step Out

Run to Cursor

Force Run to Cursor

Drop Frame

Pause Program

Resume Program

Evaluate Expression...

Quick Evaluate Expression

Show Execution Point

Toggle Line Breakpoint

Toggle Method Breakpoint

Toggle Temporary Line Breakpoint

Toggle Breakpoint Enabled

View Breakpoints...

Get thread dump

Shift+F10

Shift+F9

Alt+Shift+F10

Alt+Shift+F9

Ctrl+F2

F8

Alt+Shift+F8

F7

Alt+Shift+F7

Shift+F7

Shift+F8

Alt+F9

Ctrl+Alt+F9

F9

Alt+F8

Ctrl+Alt+F8

Alt+F10

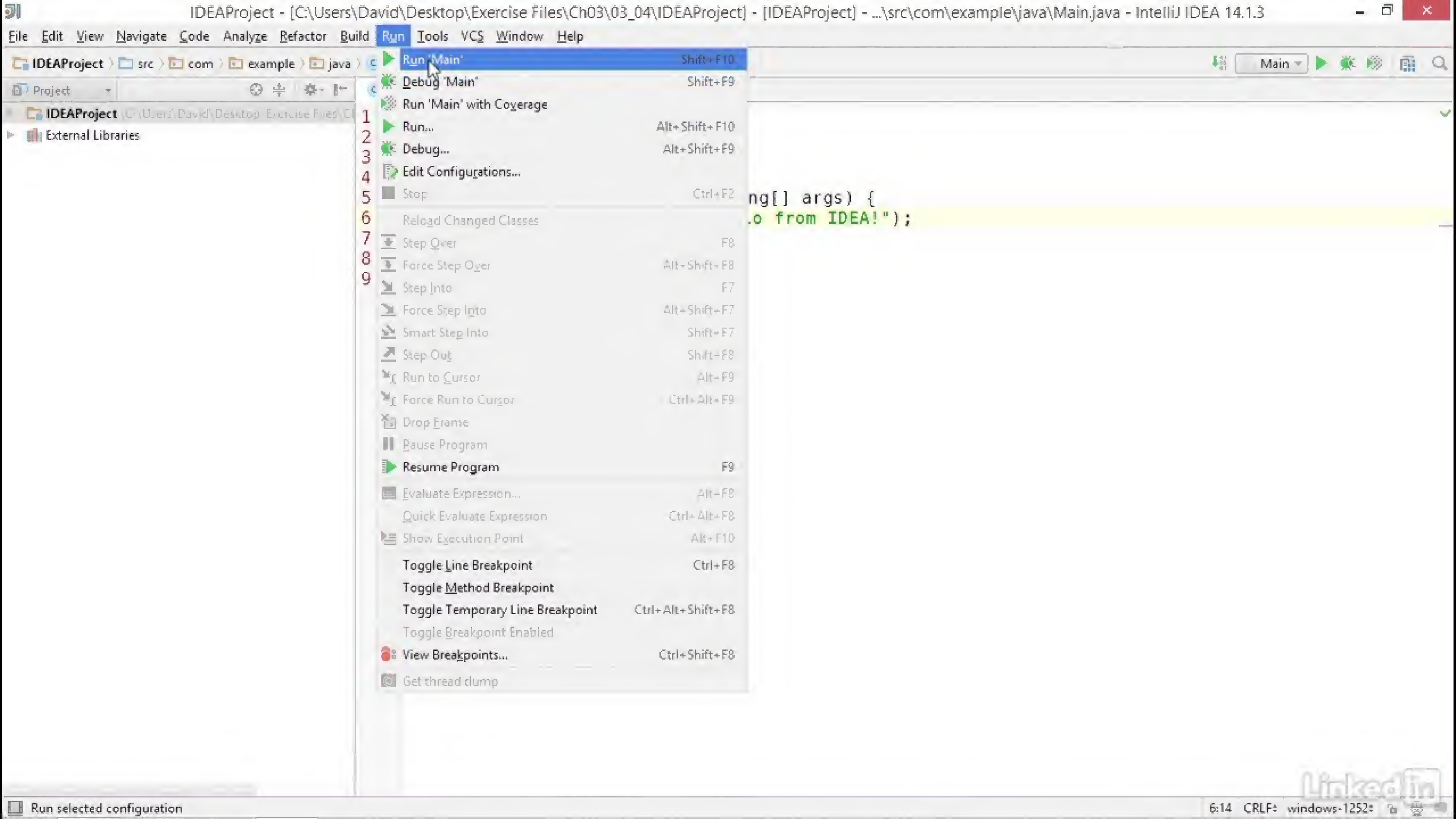
Ctrl+F8

Ctrl+Alt+Shift+F8

Ctrl+Shift+F8

ng[] args) {

.o from IDEA!");



```
1 package com.example.java;  
2  
3 public class Main {  
4  
5     public static void main(String[] args) {  
6         System.out.println("Hello from IDEA!");  
7     }  
8 }  
9
```

I


```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7     }
8 }
9
10
```

▶ "C:\Program ...  
Hello from IDEA!  
Process finished with exit code 0

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8
9     }
10 }
11
```

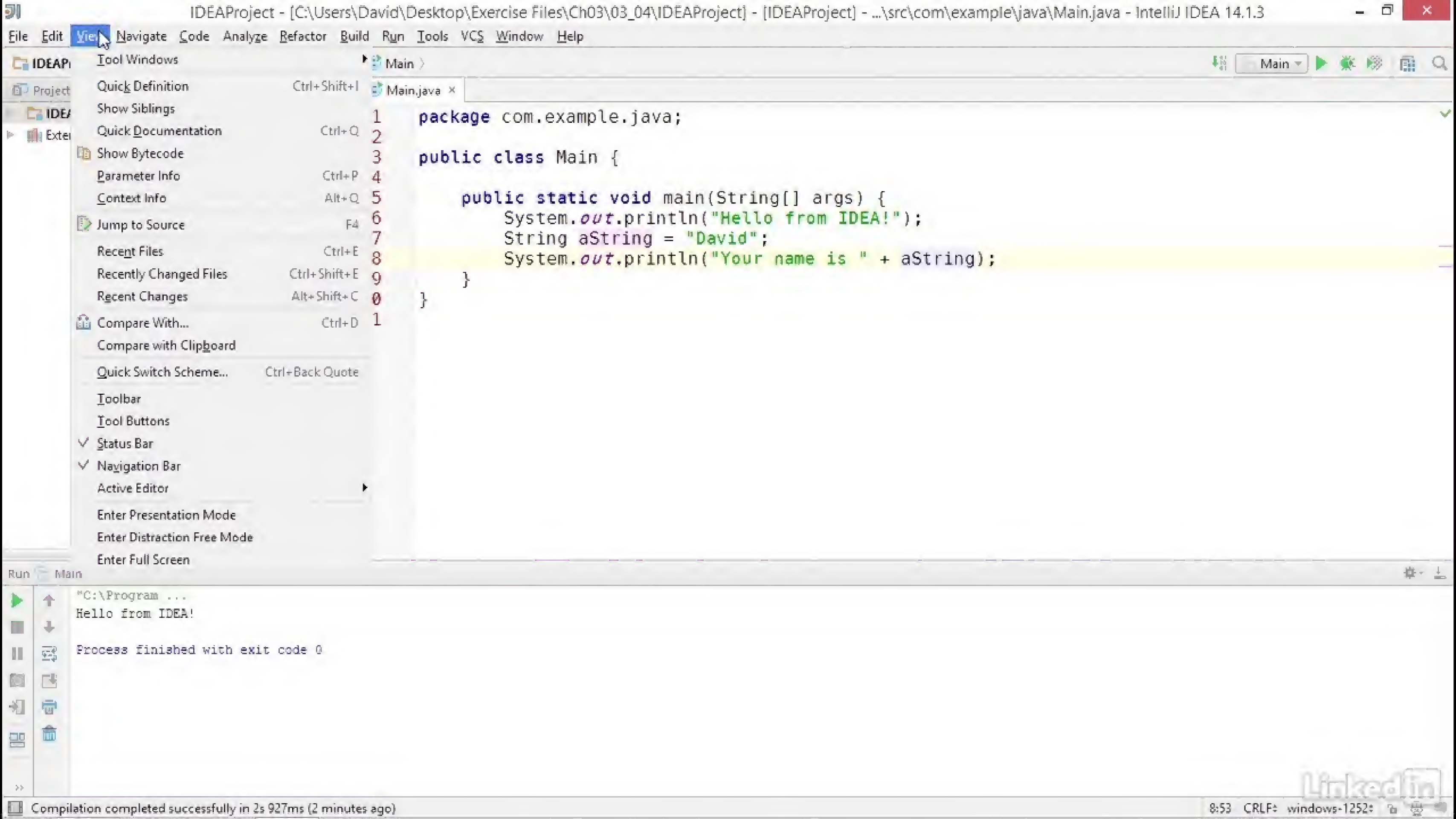
▶ "C:\Program ...  
Hello from IDEA!  
Process finished with exit code 0



 Main.java X

`aString` `String`  
Press Ctrl+Space to see non-imported classes [»](#)

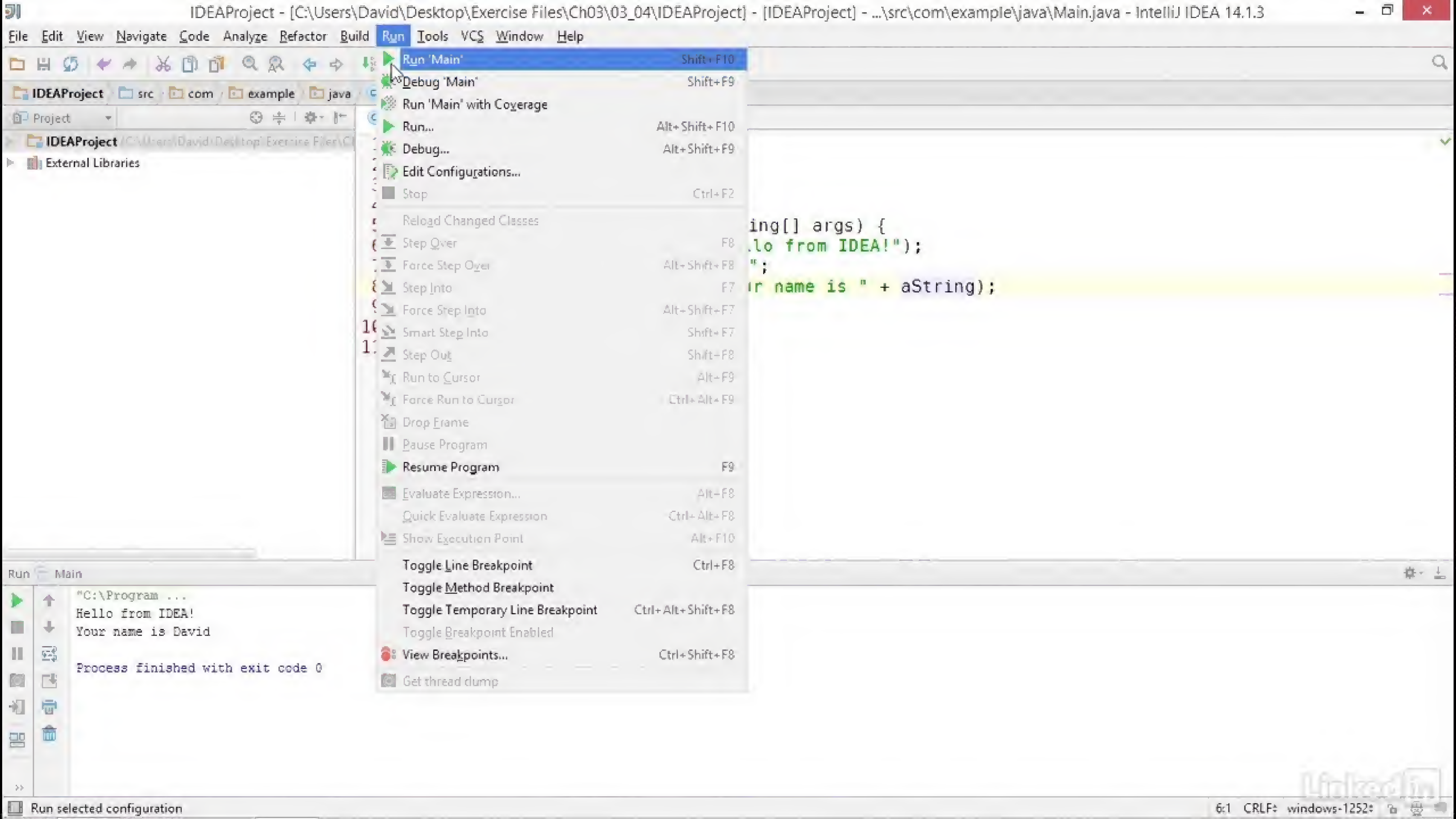
```
"C:\Program ...  
Hello from IDEA!  
  
Process finished with exit code 0
```



```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

```
"C:\Program ...
Hello from IDEA!
Your name is David

Process finished with exit code 0
```





Recycle Bin



Exercise Files





Recycle Bin



Exercise Files

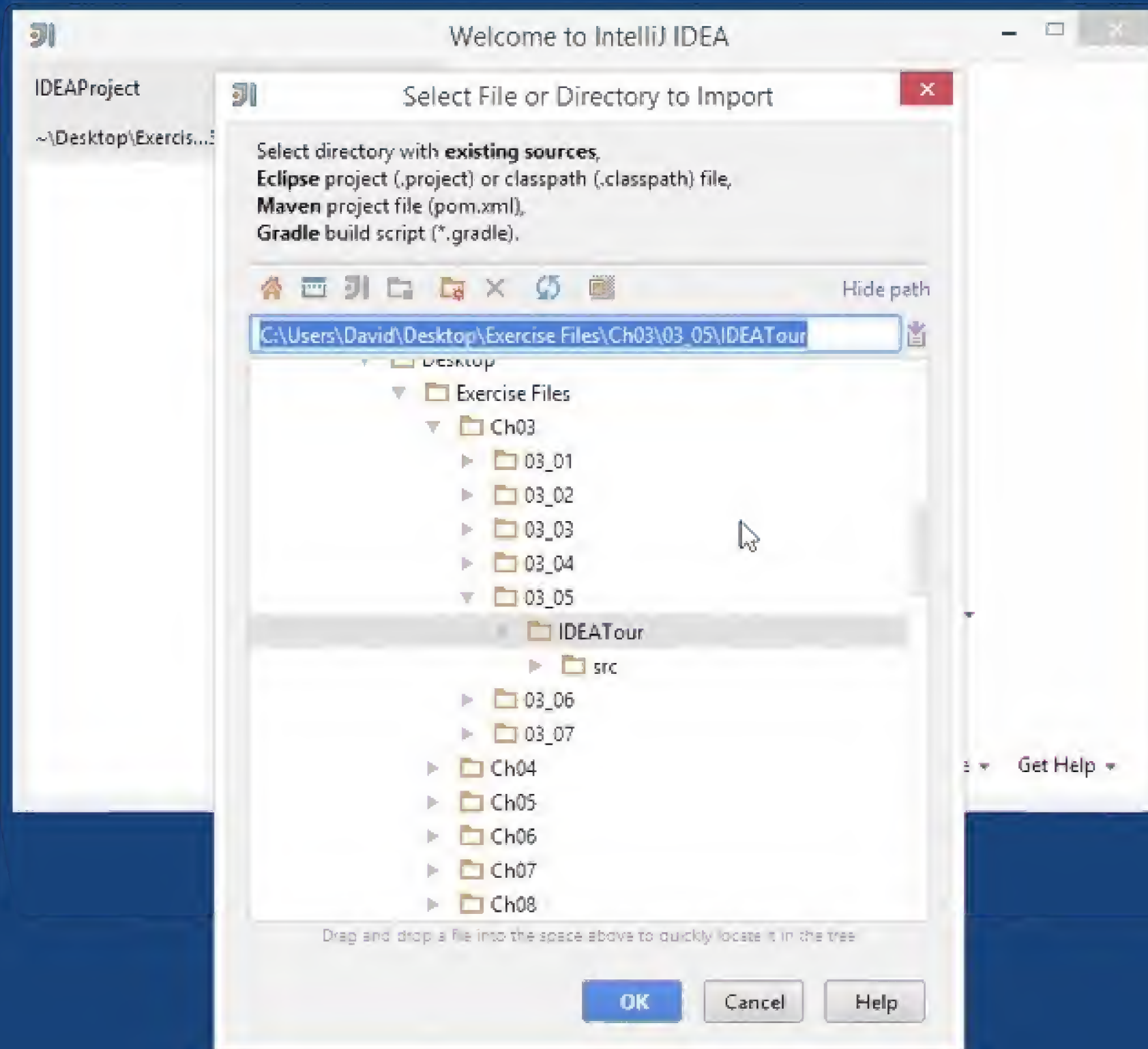




Recycle Bin



Exercise Files

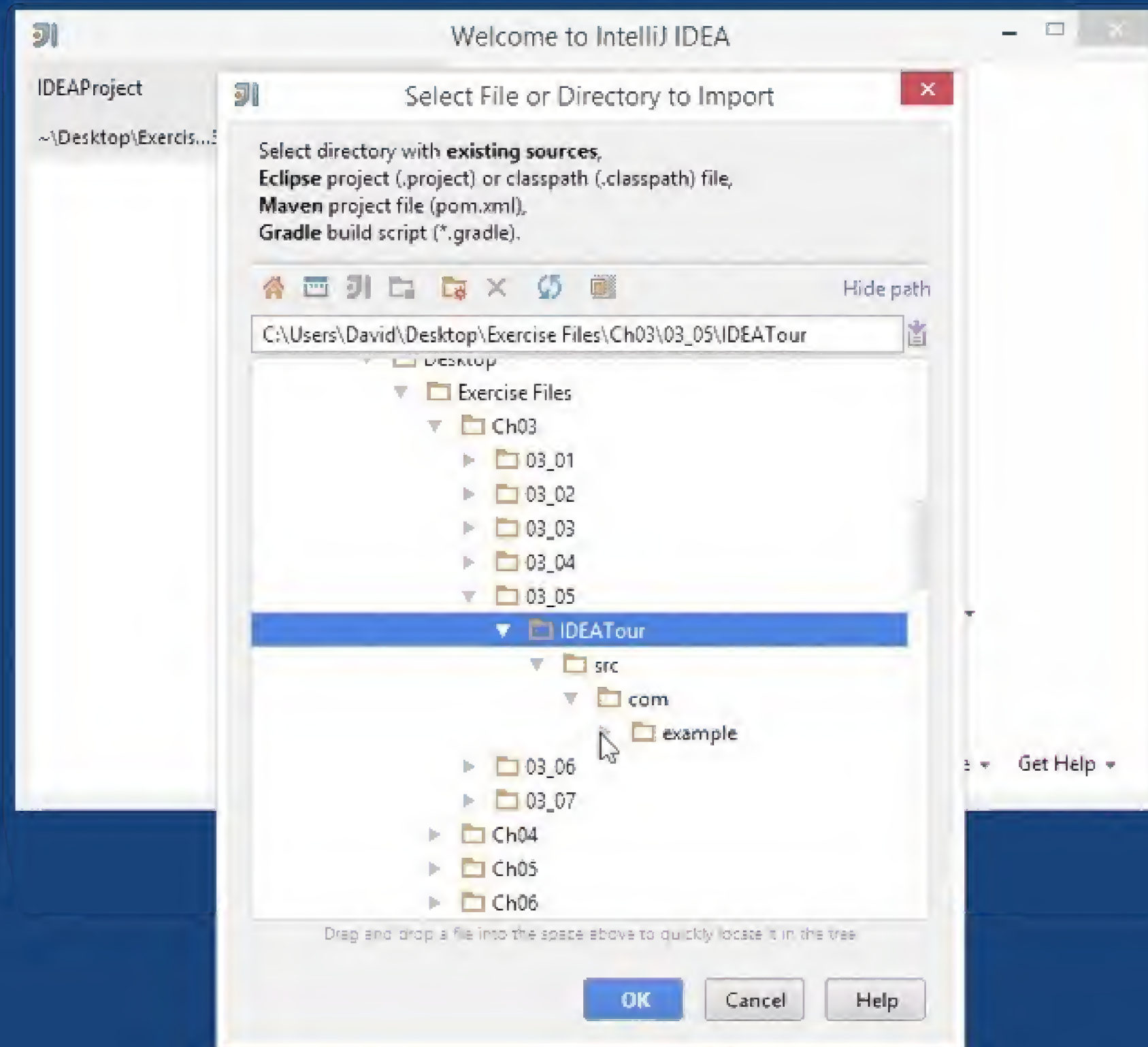




Recycle Bin



Exercise Files








Recycle Bin



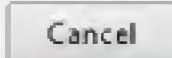
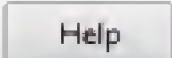


Exercise Files

 Import Project 

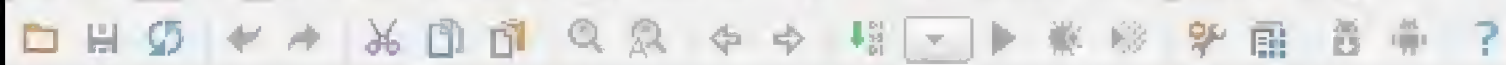
Project name:

Project location:  



File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help



IDEATour

Project

IDEATour (C:\Users\David\Desktop\Exercise Files\Ch03\)

- idea
- src
- IDEATour.iml
- External Libraries

No files are open

- Search Everywhere with Double Shift
- Open a file by name with `Ctrl+Shift+N`
- Open Recent Files with `Ctrl+E`
- Open Navigation Bar with `Alt+Home`
- Drag and Drop file(s) here from Explorer



Project

- Project
- Packages
- Project Files
- Problems
- Production
- Tests
- Scratches

example.java

Main

xml

ries

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

Nothing to show

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <module type="JAVA_MODULE" version="4">
3   <component name="NewModuleRootManager" inherit-compiler-output="true">
4     <exclude-output />
5     <content url="file://$MODULE_DIR$">
6       <sourceFolder url="file://$MODULE_DIR$/src" isTestSource="false" />
7     </content>
8     <orderEntry type="inheritedJdk" />
9     <orderEntry type="sourceFolder" forTests="false" />
10  </component>
11 </module>
```

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help



IDEATour src com example java Main

Packages

IDEATour

- com.example.java
  - Main
- Libraries

Main.java x

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

TODO

Event Log

Maven Projects

Terminal

Project

Structure

Ant Build

Favorites



IDEATour src com example java Main

Structure




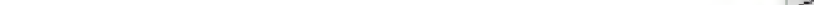
Main

main(String[]): void

Main.java x

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

Structure  Main.java 

Project:  1 package com.example.java; 

[illegible]

```
3 public class Main {  
4     public static void main(String[] args) {  
5         System.out.println("Hello, World!");  
6     }  
7 }
```

```
5 public static void main(String[] args) {
6     System.out.println("Hello from IDEAL!");
7 }
```

```

6      System.out.println("Hello from IDEA!");
7      String aString = "David";

```

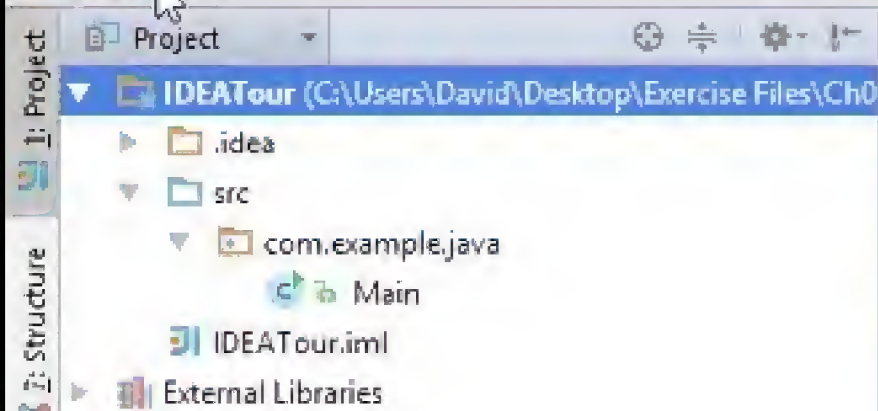
```
8      System.out.println("Your name is " + aString);
```

10

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```



IDEATour



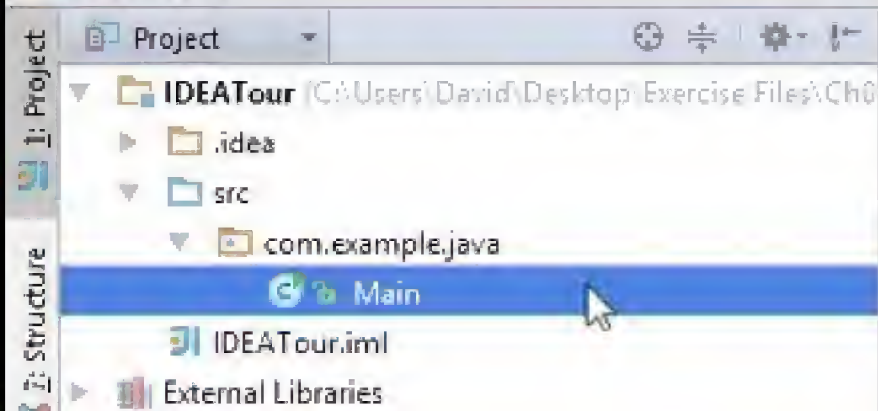
Main.java x

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

2: Favorites



IDEATour



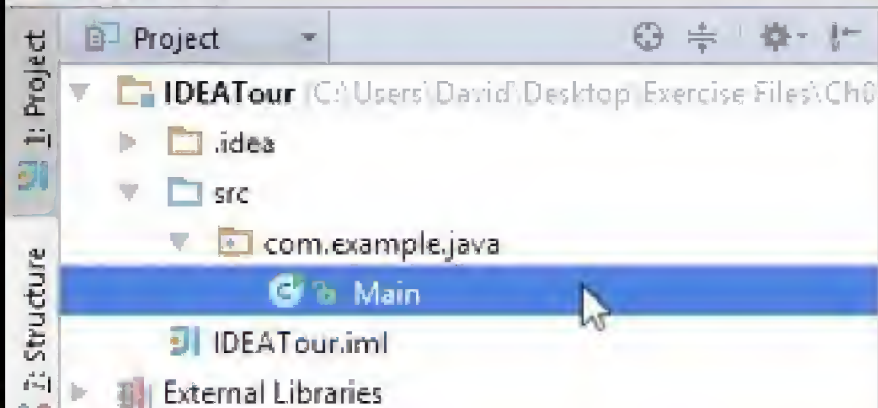
Main.java x

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

2: Favorites



IDEATour



Main.java x

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         System.out.println("Hello from IDEA!");
7         String aString = "David";
8         System.out.println("Your name is " + aString);
9     }
10 }
11
```

2: Favorites



Recycle Bin



Exercise Files

BlueJ

Project Edit Tools View Help

New Class...  
--->  
->  
Compile

Use the Project menu to create or open a project



Recycle Bin



Exercise Files

BlueJ

Project Edit Tools View Help

New Class...  
--->  
->  
Compile

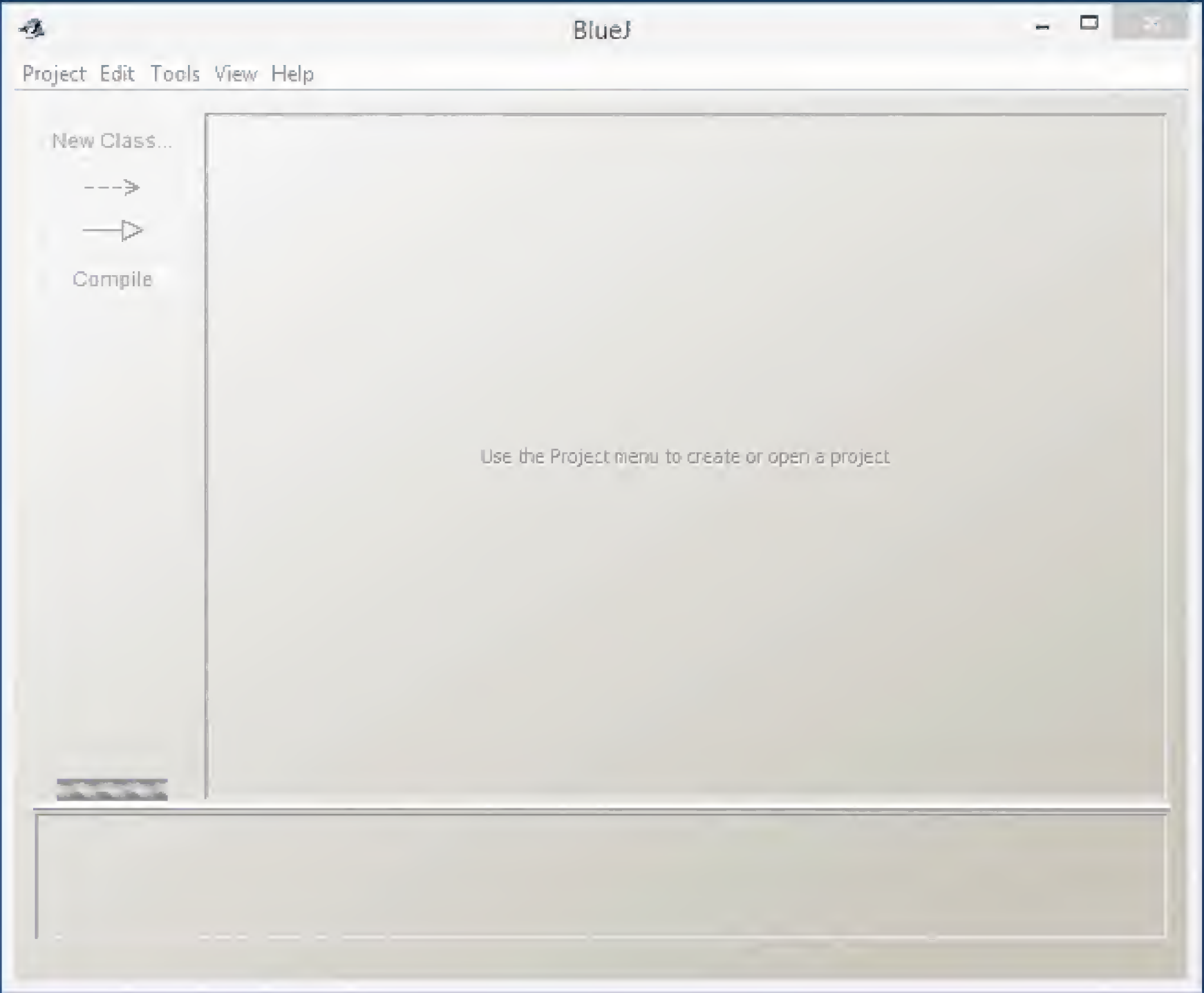
Use the Project menu to create or open a project

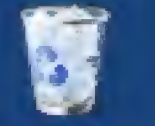


Recycle Bin



Exercise Files





Recycle Bin



Exercise Files

BlueJ

Project Edit Tools View Help

New Project

Look in: 03\_06

Recent Items

Desktop

Documents

This PC

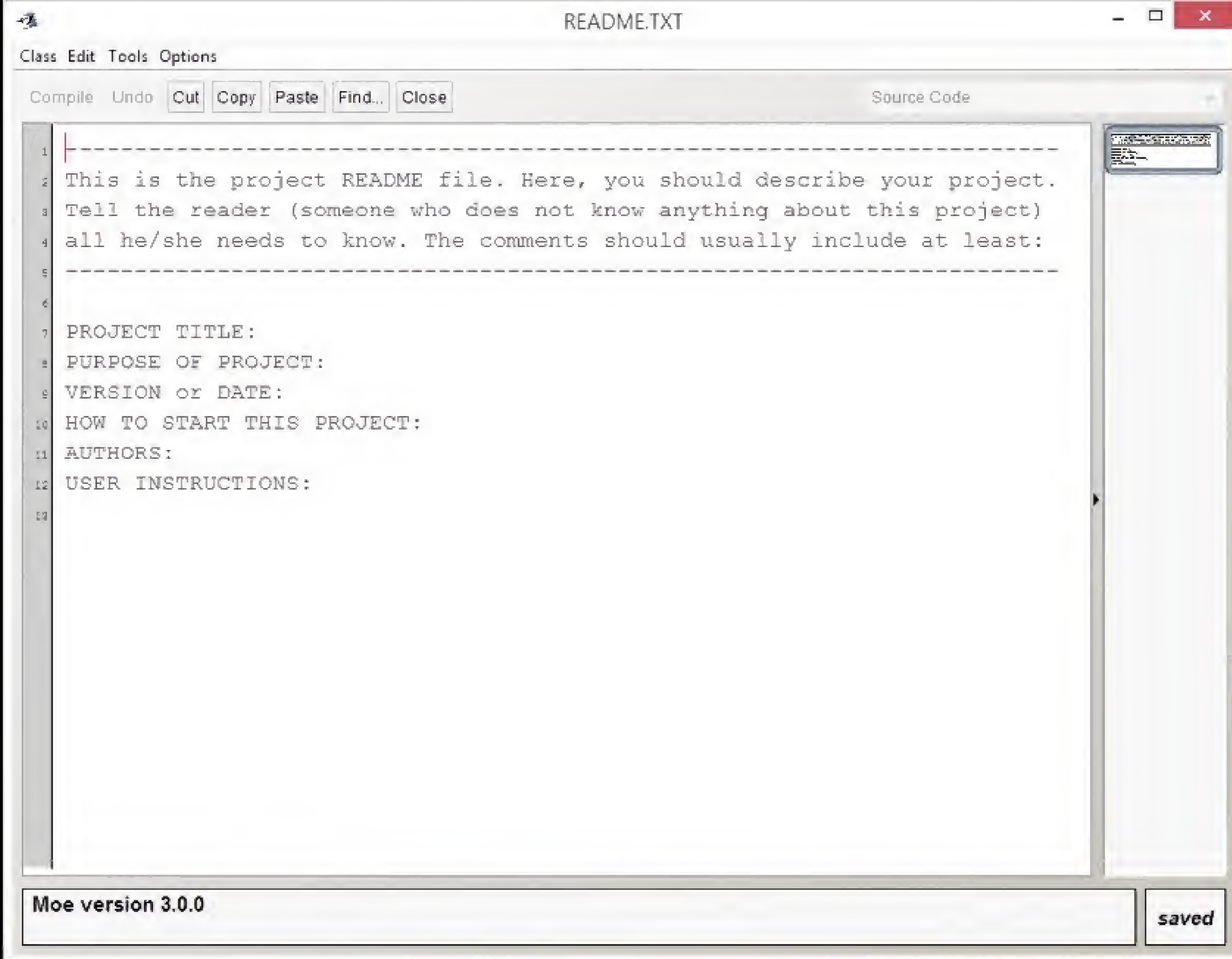
Network

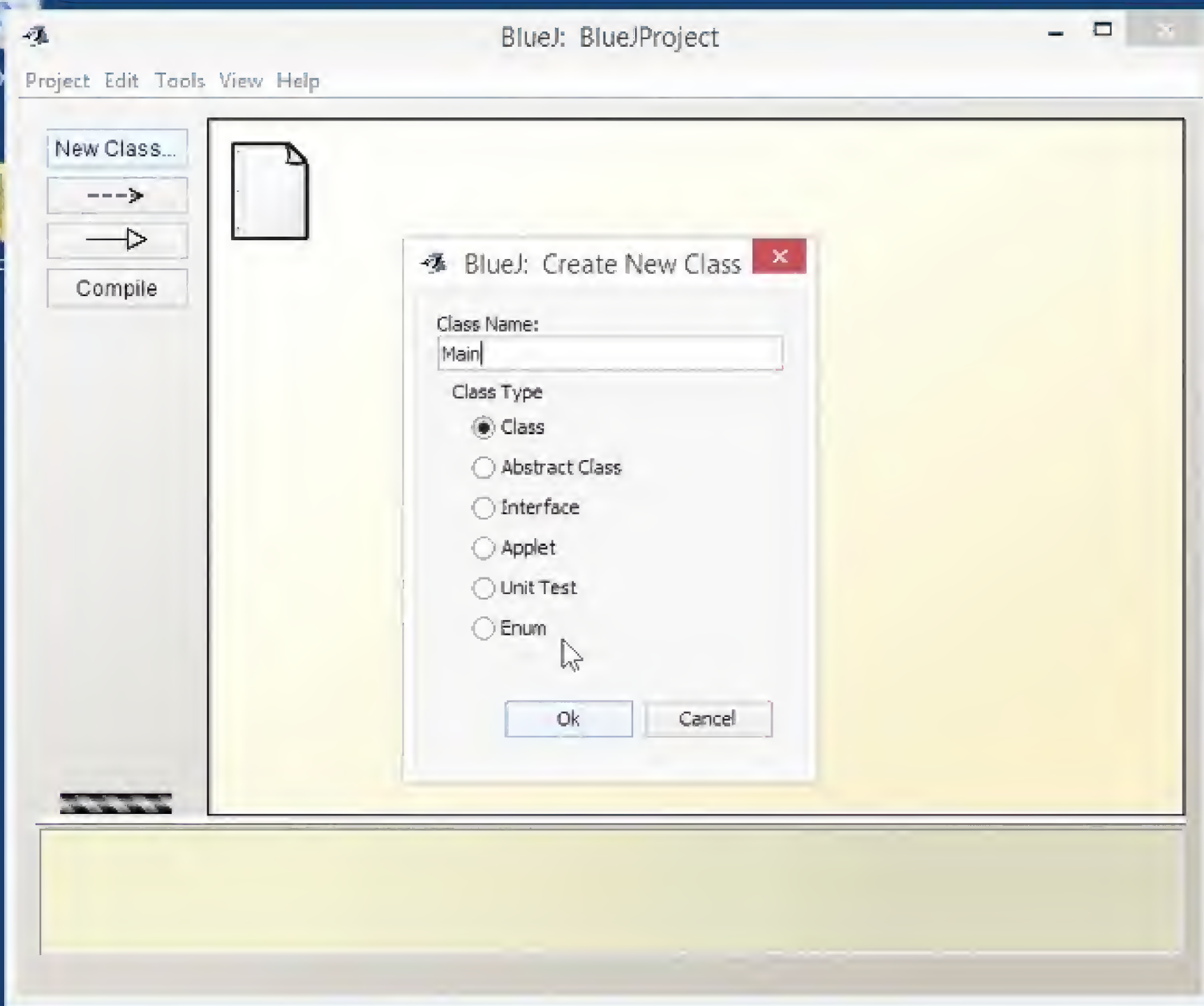
Folder name: Blu

Files of type: All Files

Create

Cancel

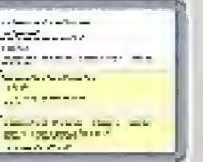




Compile Undo Cut Copy Paste Find... Close

Source Code

```
1 |
2 /**
3  * Write a description of class Main here.
4  *
5  * @author (your name)
6  * @version (a version number or a date)
7  */
8 public class Main
9 {
10     // instance variables - replace the example below with your own
11     private int x;
12
13     /**
14      * Constructor for objects of class Main
15      */
16     public Main()
17     {
18         // initialise instance variables
19         x = 0;
20     }
21
22     /**
23      * An example of a method - replace this comment with your own
24      *
25      * @param y    a sample parameter for a method
26      * @return     the sum of x and y
27      */
28     public int sampleMethod(int y)
```





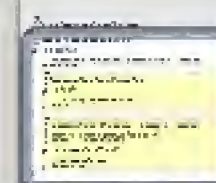
```
1
2 /**
3  * Write a description of class Main here.
4  *
5  * @author (your name)
6  * @version (a version number or a date)
7  */
8 public class Main
9 {
10     // instance variables - replace the example below with your own
11     private int x;
12
13     /**
14     * Constructor for objects of class Main
15     */
16     public Main()
17     {
18         // initialise instance variables
19         x = 0;
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24     *
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```
1  /**
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8  public class Main
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24      *
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26      * @return     the sum of x and y
27      */
28     public int sampleMethod(int y)
```

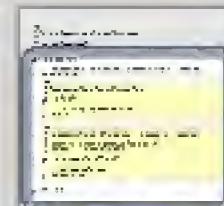


```
6  *
7  */
8  public class Main
9  {
10     // instance variables - replace the example below with your own
11     private int x;
12
13     /**
14      * Constructor for objects of class Main
15      */
16     public Main()
17     {
18         // initialise instance variables
19         x = 0;
20     }
21
22     /**
23      * An example of a method - replace this comment with your own
24      *
25      * @param y    a sample parameter for a method
26      * @return     the sum of x and y
27      */
28     public int sampleMethod(int y)
29     {
30         // put your code here
31         return x + y;
32     }
33 }
```





```
1 public class Main
2 {
3     // instance variables - replace the example below with your own
4     private int x;
5
6     /**
7      * Constructor for objects of class Main
8      */
9     public Main()
10    {
11        // initialise instance variables
12        x = 0;
13    }
14
15    /**
16     * An example of a method - replace this comment with your own
17     *
18     * @param y    a sample parameter for a method
19     * @return     the sum of x and y
20     */
21    public int sampleMethod(int y)
22    {
23        // put your code here
24        return x + y;
25    }
26
27    public st
28 }
29
30
```





```
1 // instance variables - replace the example below with your own
2 private int x;
3
4 /**
5  * Constructor for objects of class Main
6  */
7 public Main()
8 {
9     // initialise instance variables
10    x = 0;
11 }
12
13 /**
14  * An example of a method - replace this comment with your own
15  *
16  * @param y    a sample parameter for a method
17  * @return     the sum of x and y
18  */
19 public int sampleMethod(int y)
20 {
21     // put your code here
22     return x + y;
23 }
24
25 public static void main(String[] args) {
26     System.out.println
27 }
```





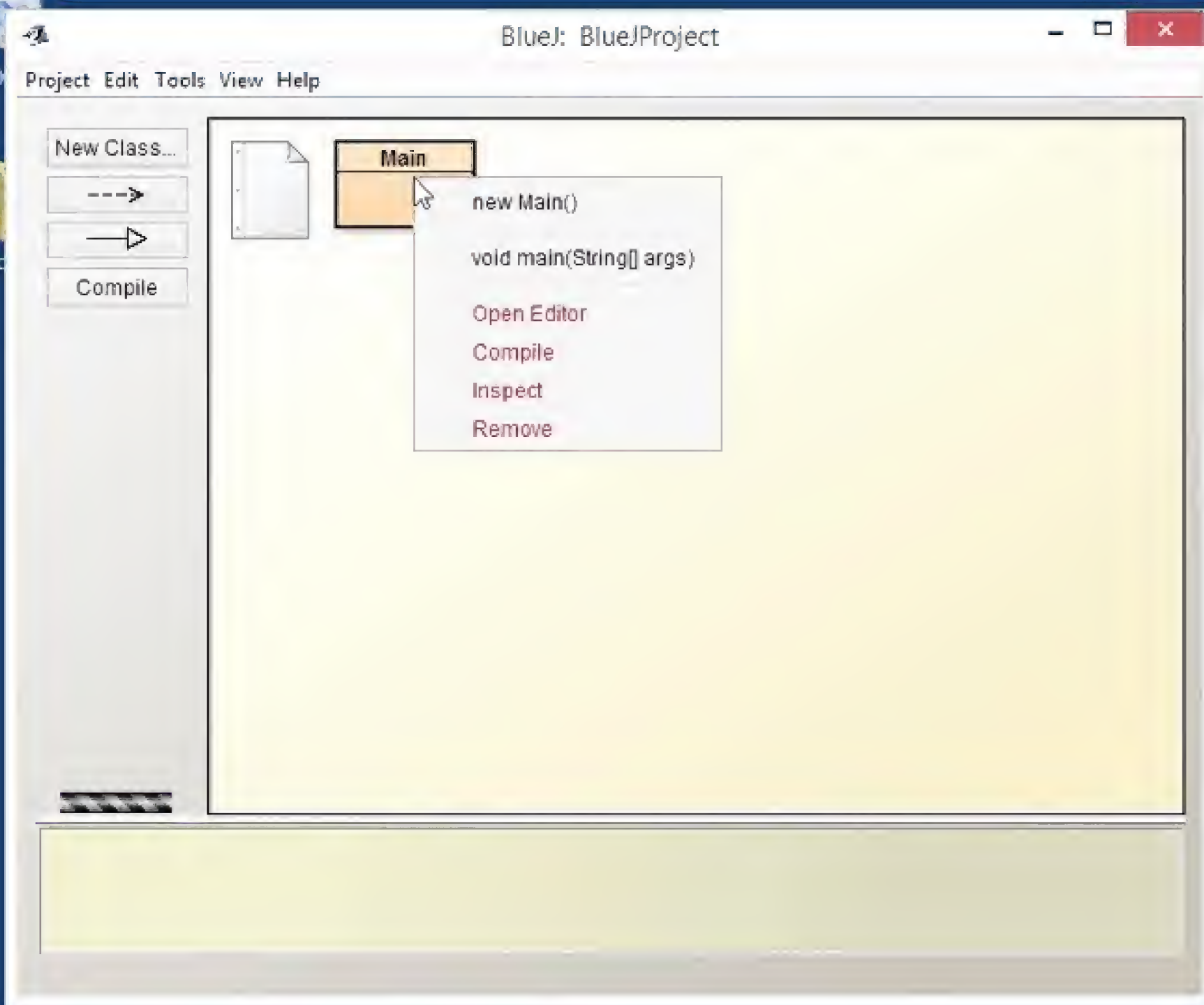
```
11 private int x;
12
13 /**
14  * Constructor for objects of class Main
15  */
16 public Main()
17 {
18     // initialise instance variables
19     x = 0;
20 }
21
22 /**
23  * An example of a method - replace this comment with your own
24  *
25  * @param y    a sample parameter for a method
26  * @return     the sum of x and y
27  */
28 public int sampleMethod(int y)
29 {
30     // put your code here
31     return x + y;
32 }
33
34 public static void main(String[] args) {
35     System.out.println("Hello from BlueJ!");
36 }
37 }
```

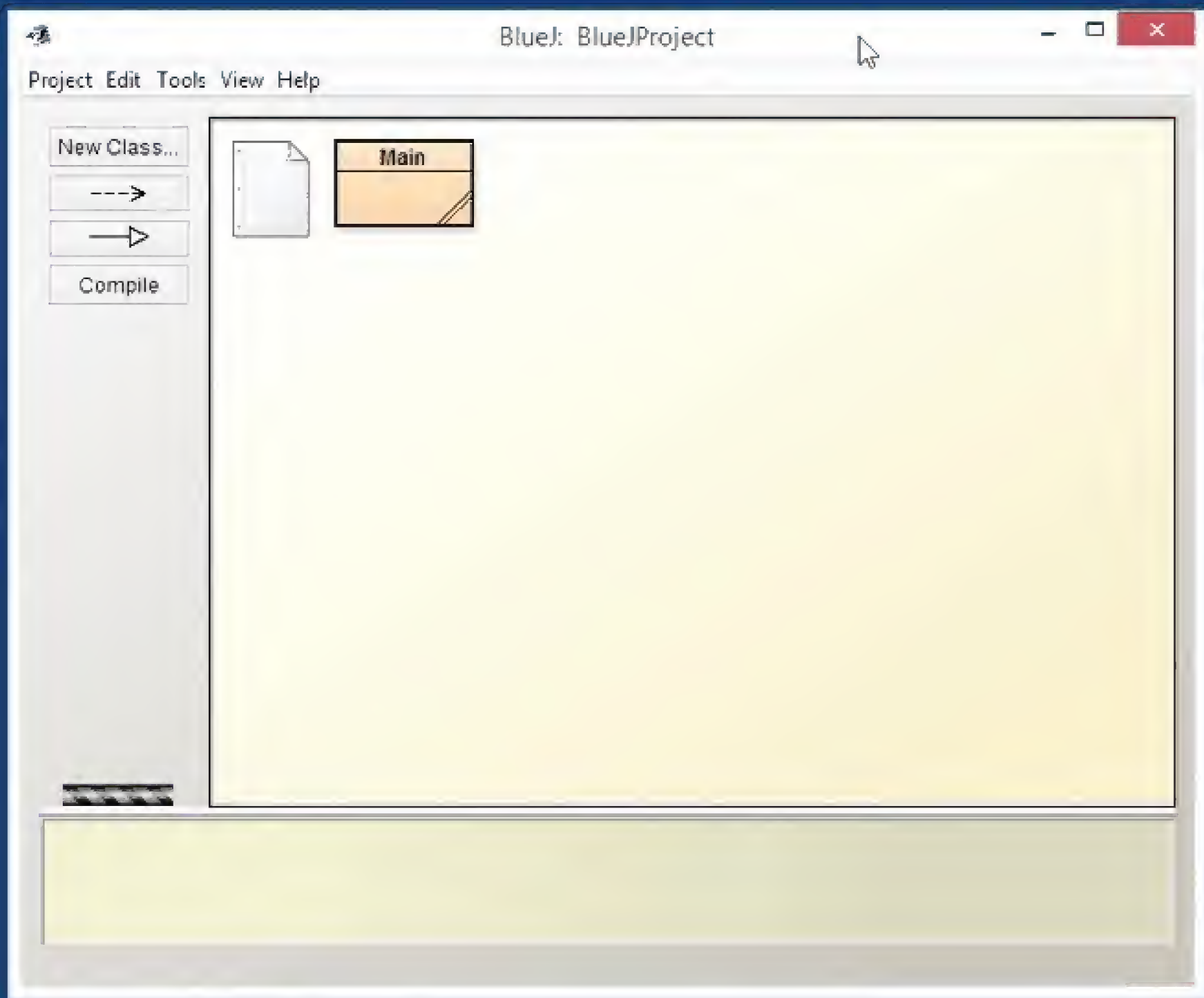




```
11 private int x;
12
13 /**
14  * Constructor for objects of class Main
15  */
16 public Main()
17 {
18     // initialise instance variables
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28 public int sampleMethod(int y)
29 {
30     // put your code here
31     return x + y;
32 }
33
34 public static void main(String[] args) {
35     System.out.println("Hello from BlueJ!")
36 }
37 }
```







BlueJ: BlueJProject

Project Edit Tools View Help

New Class...  
-->  
->  
Compile

BlueJProject

File Home Share View

Exercise Files > Ch03 > 03\_06 > BlueJProject

Search BlueJProject

	Name	Date modified	Type	Size
★ Favorites				
Home	Main.class	6/3/2015 11:07 AM	CLASS File	1 KB
Desktop	Main.ctxt	6/3/2015 11:07 AM	CTXT File	1 KB
Downloads	Main	6/3/2015 11:07 AM	JAVA File	1 KB
Dropbox	package	6/3/2015 11:04 AM	BlueJ Project File	1 KB
Recent places	README	6/3/2015 11:04 AM	TXT File	1 KB
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Exercise Files				
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Google Drive				
OneDrive				
Homegroup				
This PC				
Libraries				
Network				

5 items 1 item selected 483 bytes



Recycle Bin



Exercise Files

BlueJ: BlueJProject

Project Edit Tools View Help

New Class...  
-->  
->  
Compile

Main

LinkedIn



Recycle Bin



Exercise Files

BlueJ: BlueJProject

Project Edit Tools View Help

New Class...

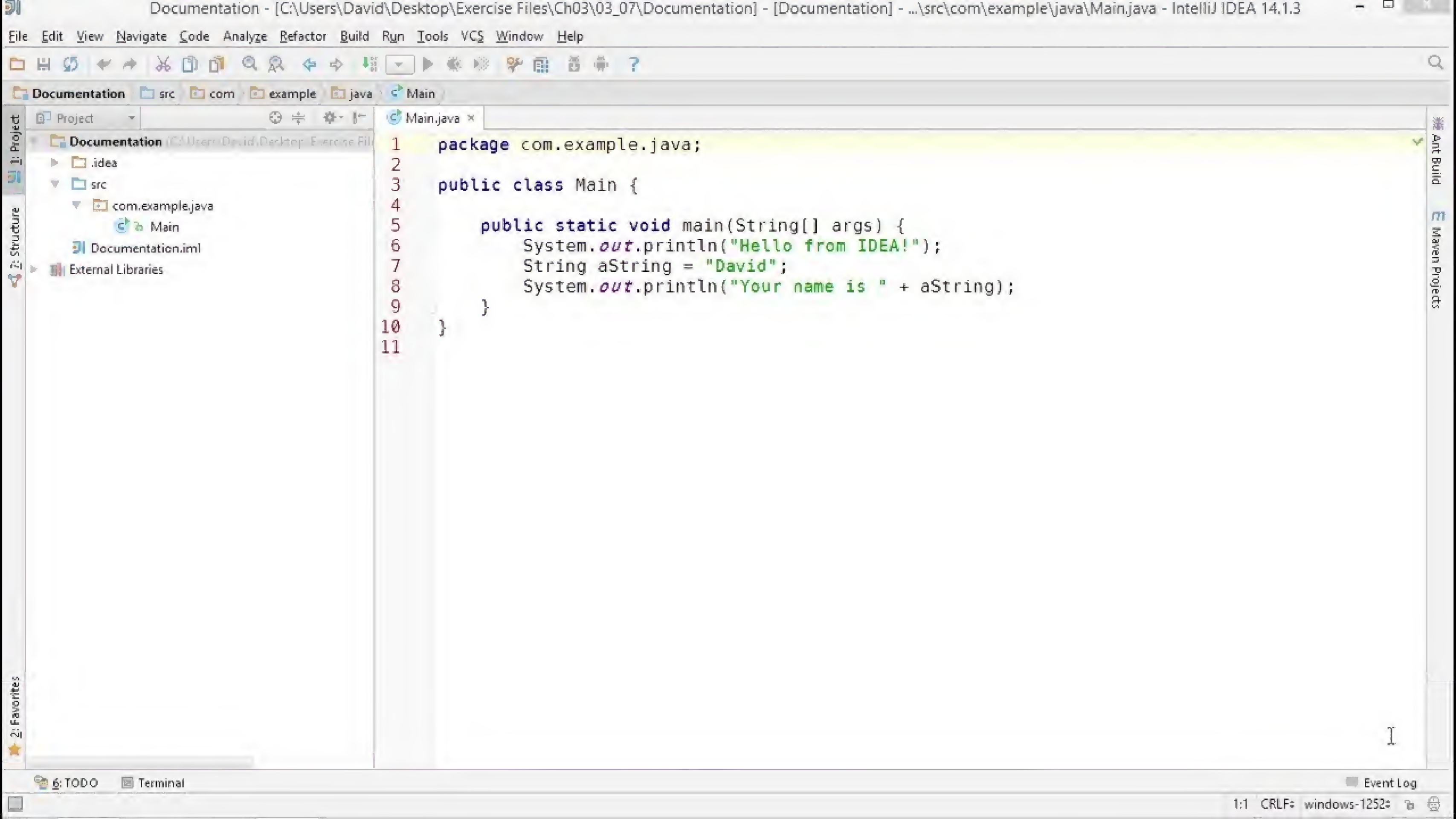
---

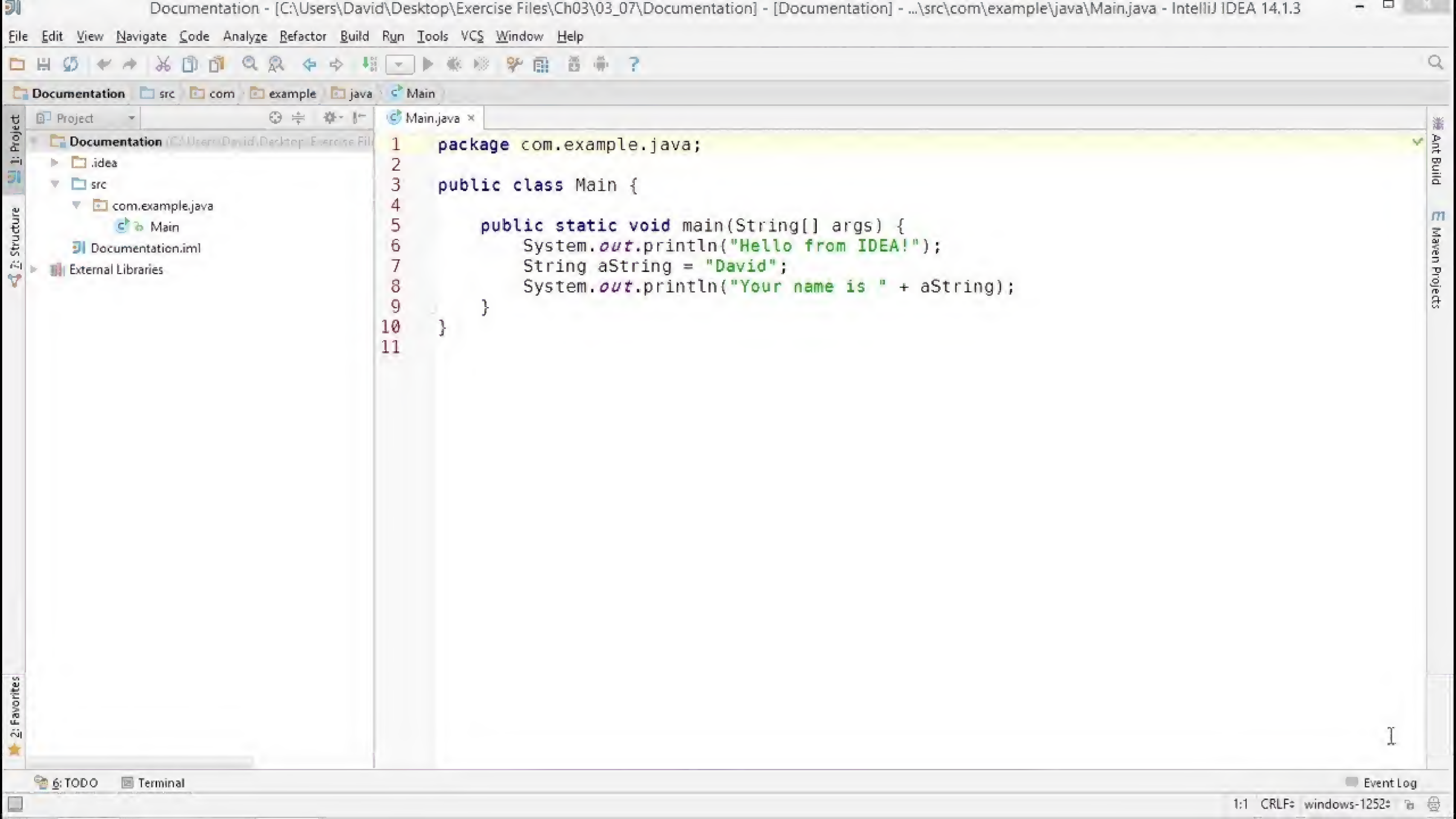
→

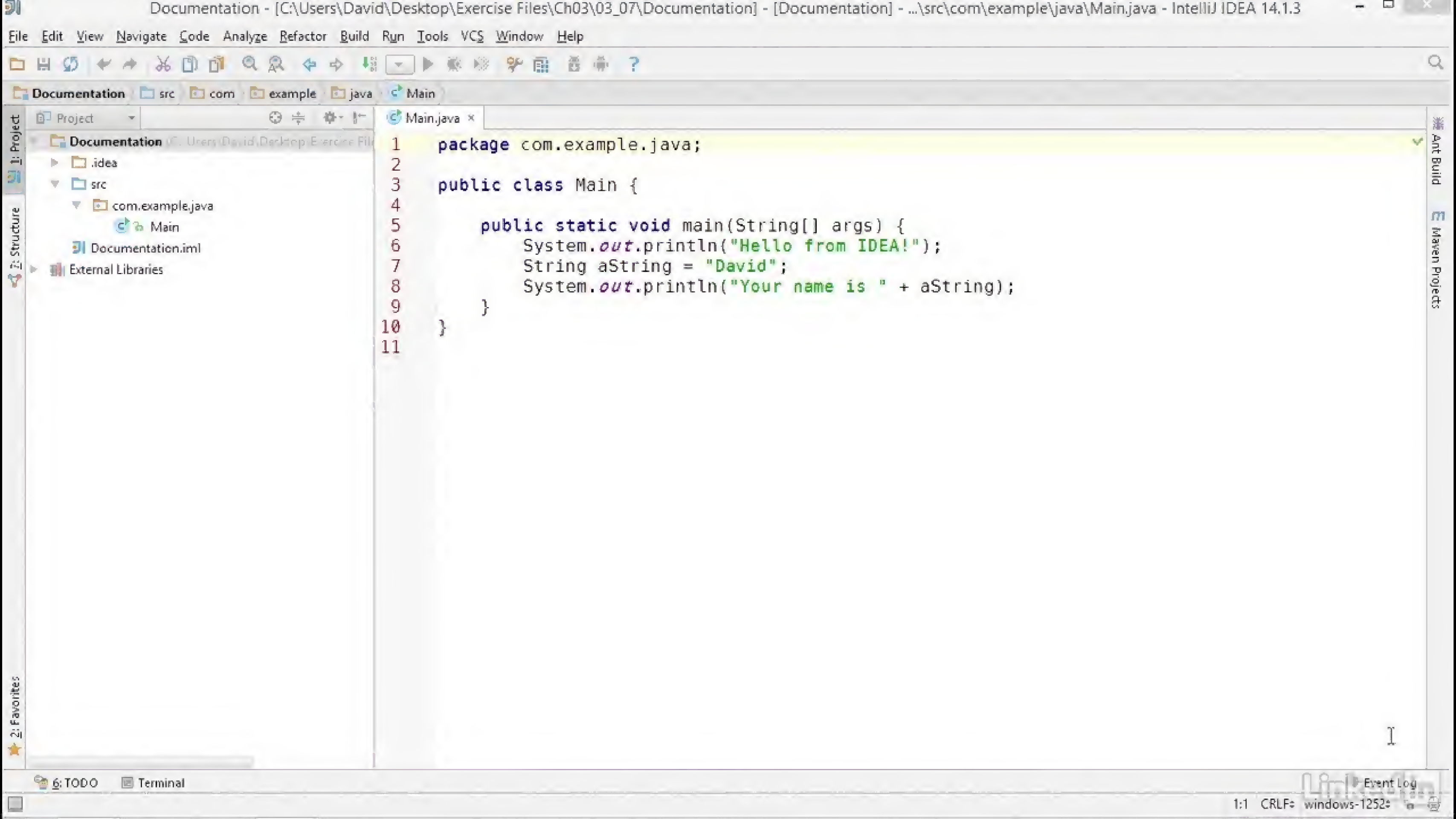
→

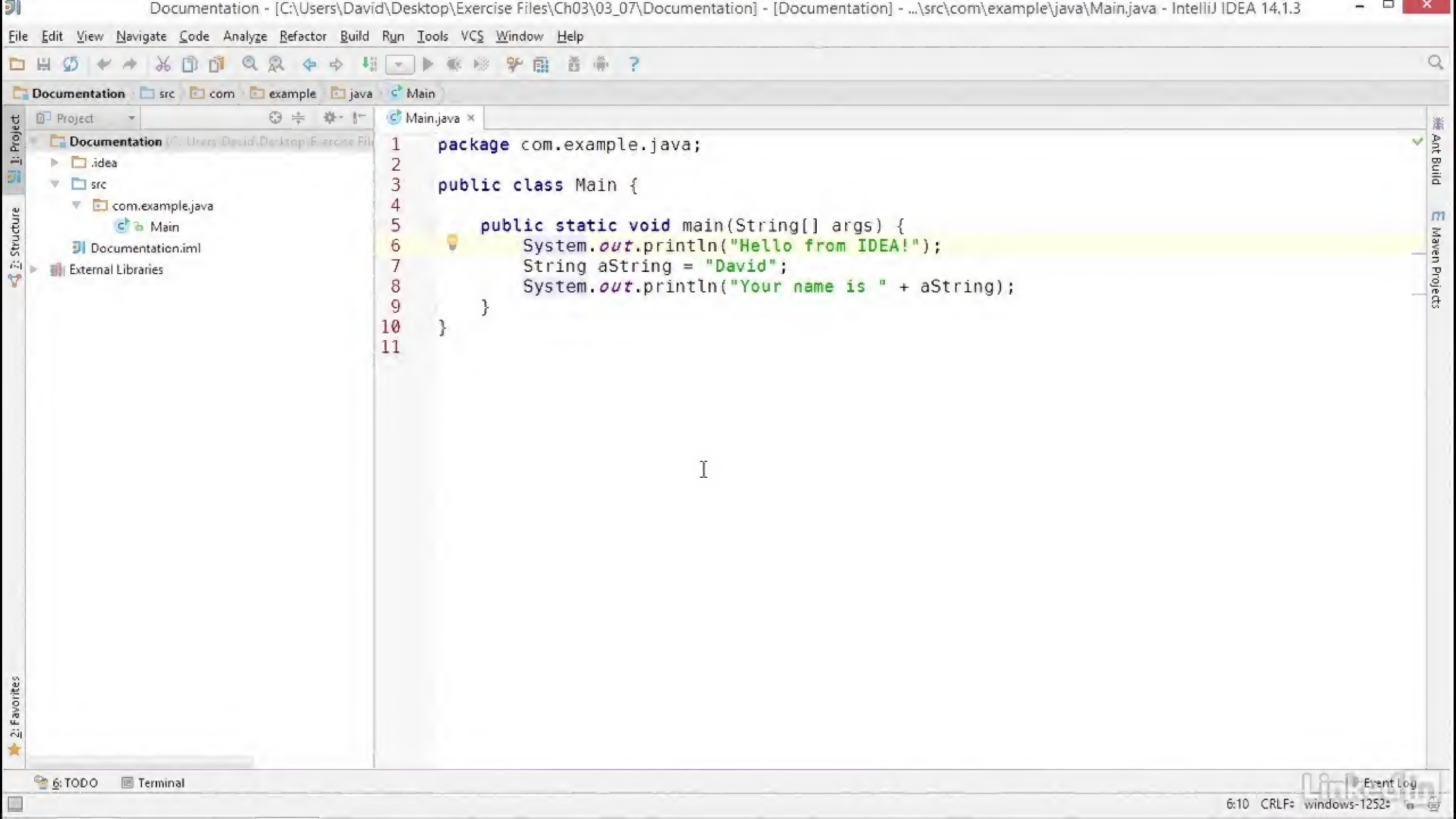
Compile

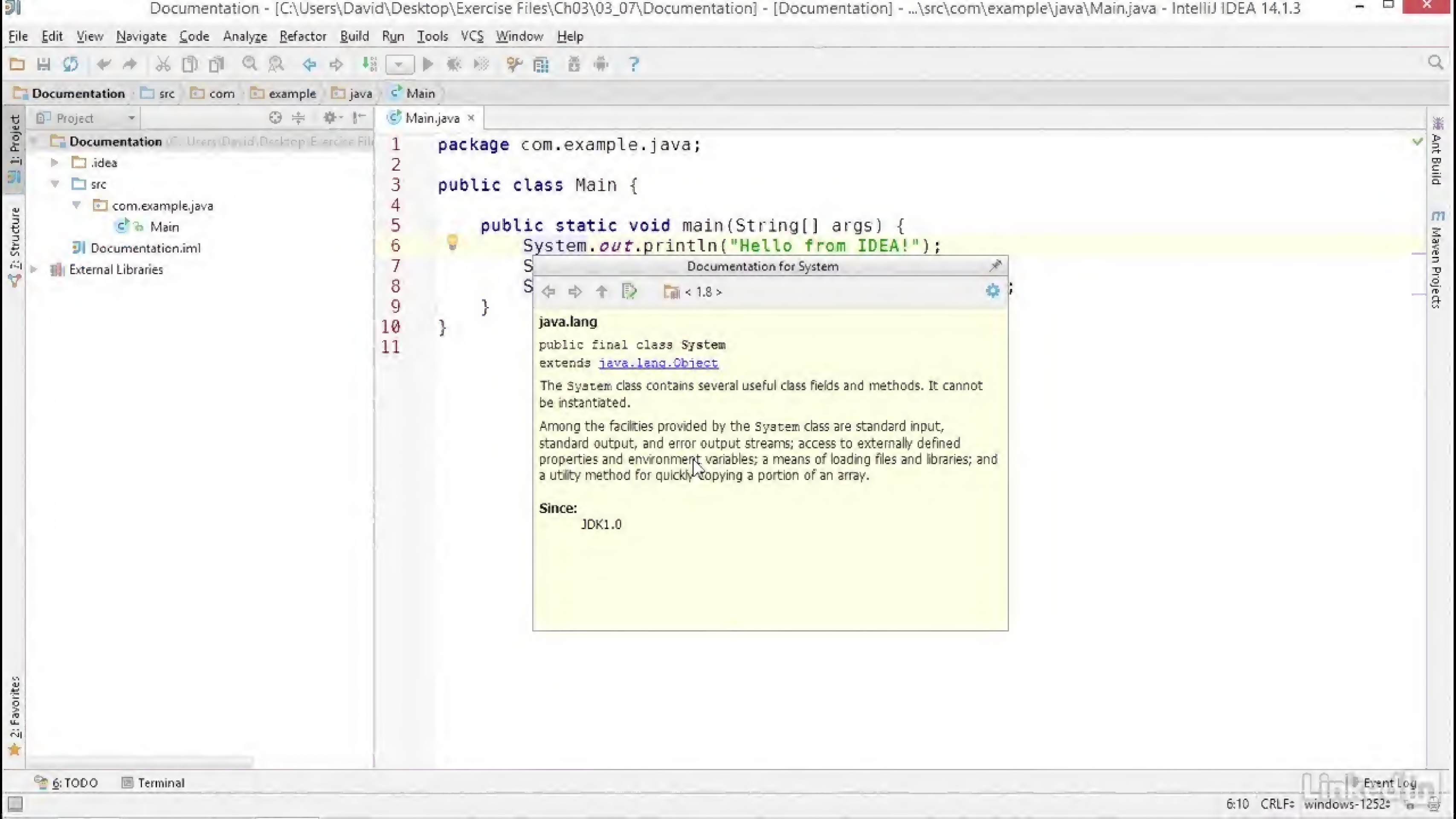
Main

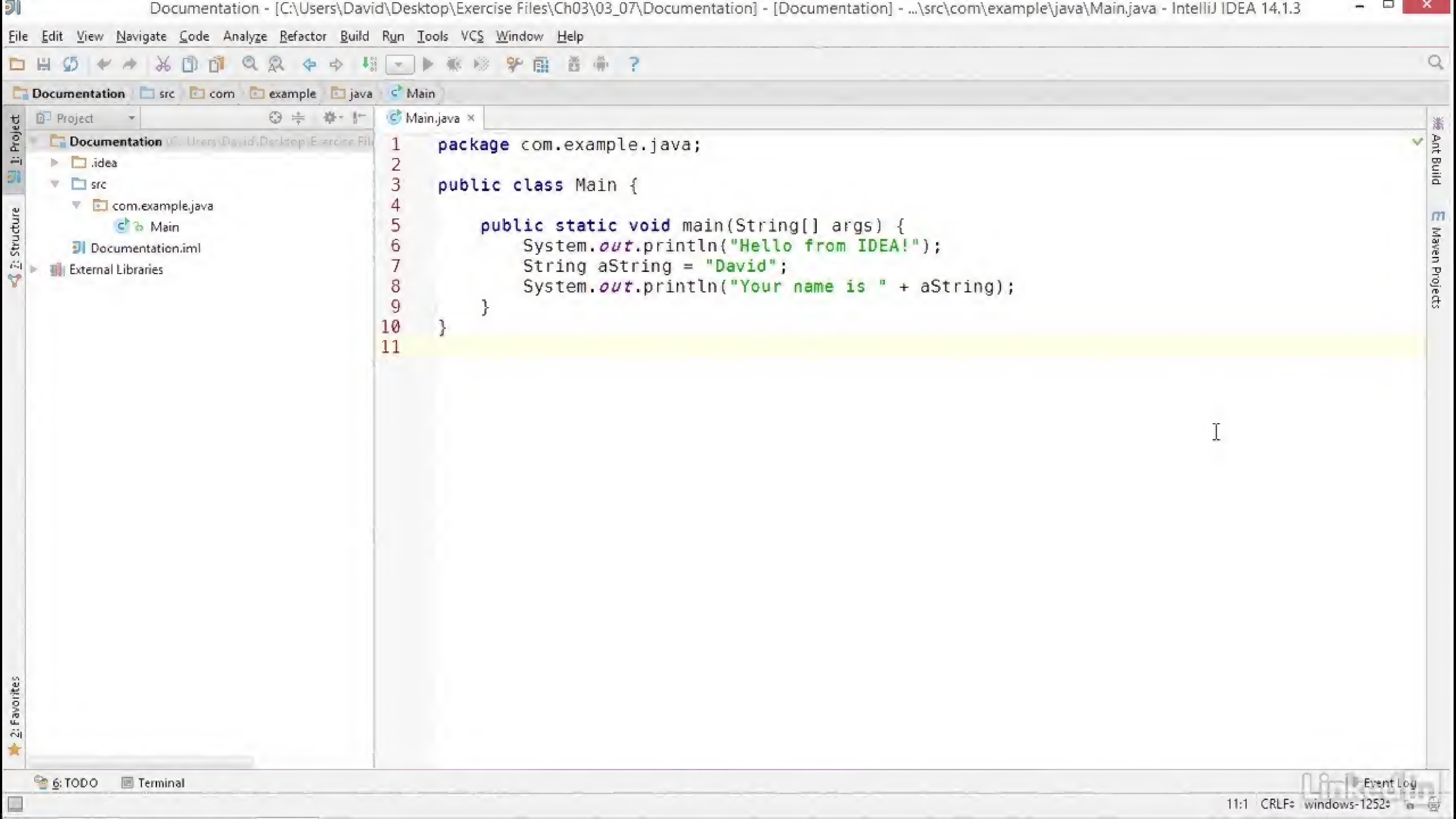














Java Platform Standard E: x

docs.oracle.com/javase/8/docs/

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Tutorials and Training

The Java Tutorials

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More Information

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Known Issues

JDK 8 Adoption Guide

Troubleshooting Guide

About Test / Sample Applications and Code

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Resources

Oracle Java SE

Advanced and Oracle

The following conceptual diagram illustrates the components of Oracle's Java SE products:

Description of Java Conceptual Diagram

JDK

JRE

Java Virtual Machine

Java Language

Tools & Tool APIs

Deployment

User Interface Toolkits

Integration Libraries

Other Base Libraries

lang and util Base Libraries

Java Virtual Machine

java javac javadoc jar javap jdeps Scripting

Security Monitoring JConsole VisualVM JMC JFR

JPDA JVM TI IDL RMI Java DB Deployment

Internationalization Web Services Troubleshooting

Java Web Start JavaFX

Swing Java 2D AWT Accessibility

Drag and Drop Input Methods Image I/O Print Service Sound

IDL JDBC JNDI RMI RMI-IIOP Scripting

Beans Security Serialization Extension Mechanism

JMX XML JAXP Networking Override Mechanism

JNI Date and Time Input/Output Internationalization

lang and util

Math Collections Ref Objects Regular Expressions

Logging Management Instrumentation Concurrency Utilities

Reflection Versioning Preferences API JAR Zip

Java HotSpot Client and Server VM

Java SE API

Compact Profiles

David

Other bookmarks

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www.oracle.com/technetwork/java/javase/downloads/index.html

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Java Platform, Standard Edition

Java SE 8u45

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Readme Files

- JDK ReadMe
- JRE ReadMe

JDK

DOWNLOAD

Server JRE

DOWNLOAD

JRE

DOWNLOAD

Which Java package do I need?

Software Developers: JDK (Java SE Development Kit). For Java Developers. Includes a complete JRE plus tools for developing, debugging, and monitoring Java applications.

Administrators running applications on a server: Server JRE (Server Java Runtime Environment) For deploying Java applications on servers. Includes tools for JVM monitoring and tools commonly required for server applications, but does not include browser integration (the Java plug-in), auto-update, nor an installer. [Learn more](#)

End user running Java on a desktop: JRE: (Java Runtime Environment). Covers most end-users needs. Contains everything required to run Java applications on your system.

Java SE 7u79/80

Auto-update Notice & End of Public Updates for Oracle JDK 7

LinkedIn



Recycle Bin



Exercise Files





### Default Project Structure

Name: 1.8

JDK home path: C:\Program Files\Java\jdk1.8.0\_45

Classpath Sourcepath Annotations Documentation Paths

- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\charsets.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\deploy.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\javaws.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jce.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jfr.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jfxswt.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\jsse.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\management-agent.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\plugin.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\resources.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\rt.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\access-bridge-64.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\clldrdata.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\dnsns.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\jaccess.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\jfxrt.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\localedata.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\nashorn.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunec.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunjc\_provider.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunmscapi.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\sunpkcs11.jar
- C:\Program Files\Java\jdk1.8.0\_45\jre\lib\ext\zipfs.jar

OK Cancel Apply Help



← →

Project Settings

Project

Libraries

Platform Settings

**SDKs**

Global Libraries

Problems

+ -

1.8

Name: 1.8

JDK home path: C:\Program Files\Java\jdk1.8.0\_45

Classpath Sourcepath Annotations Documentation Paths

http://docs.oracle.com/javase/8/docs/api

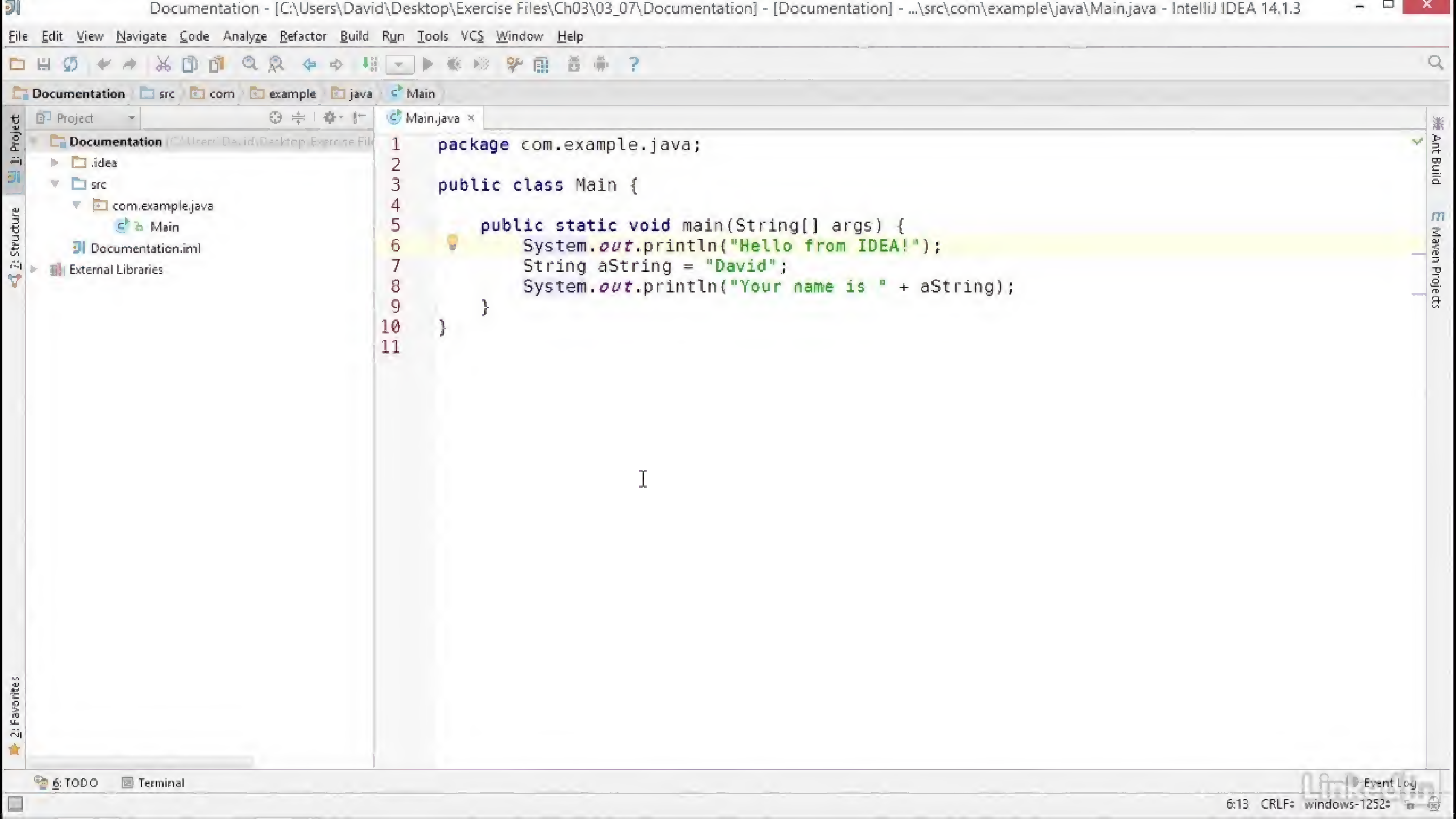
Specify Documentation URL

Enter documentation URL:

http://docs.oracle.com/javase/8/docs/api

OK Cancel

OK Cancel Apply Help



System (Java Platform SE

David

docs.oracle.com/javase/8/docs/api/java/lang/System.html#method.summary

Java Platform Stand...

Java SE - Download...

Other bookmarks

Method Summary

All Methods

Static Methods

Concrete Methods

Deprecated Methods

Modifier and Type	Method and Description
static void	<b>arraycopy</b> (Object src, int srcPos, Object dest, int destPos, int length) Copies an array from the specified source array, beginning at the specified position, to the specified position of the destination array.
static String	<b>clearProperty</b> (String key) Removes the system property indicated by the specified key.
static Console	<b>console</b> () Returns the unique <b>Console</b> object associated with the current Java virtual machine, if any.
static long	<b>currentTimeMillis</b> () Returns the current time in milliseconds.
static void	<b>exit</b> (int status) Terminates the currently running Java Virtual Machine.
static void	<b>gc</b> () Runs the garbage collector.
static Map<String,String>	<b>getenv</b> () Returns an unmodifiable string map view of the current system environment.
static String	<b>getenv</b> (String name) Gets the value of the specified environment variable.
static Properties	<b>getProperties</b> () Determines the current system properties.
static String	<b>getProperty</b> (String key) Gets the system property indicated by the specified key.

LinkedIn

String (Java Platform SE 8)

docs.oracle.com/javase/8/docs/api/java/lang/String.html

Java Platform Stand...Java SE - Download...

Other bookmarks

Java™ Platform  
Standard Ed. 8

OVERVIEWPACKAGECLASSUSE TREEDEPRECATEDINDEXHELP

PREV CLASSNEXT CLASSFRAMESNO FRAMESALL CLASSES

SUMMARY · NESTED | FIELD | CONSTR | METHODDETAIL: FIELD | CONSTR | METHOD

compact1, compact2, compact3  
java.lang

Class String

java.lang.Object  
    java.lang.String

All Implemented Interfaces:  
Serializable, CharSequence, Comparable<String>

public final class String  
extends Object  
implements Serializable, Comparable<String>, CharSequence

The String class represents character strings. All string literals in Java programs, such as "abc", are implemented as instances of this class.

Strings are constant; their values cannot be changed after they are created. String buffers support mutable strings. Because String objects are immutable they can be shared. For example:

String str = "abc";

is equivalent to:

char data[] = {'a', 'b', 'c'};  
String str = new String(data);

Here are some more examples of how strings can be used:

System.out.println("abc");

LinkedIn



# Primitive Data Types

# What is a primitive data type?

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- Numbers, characters, and booleans
- Stored in fastest available memory
- Primitive data type names are all lowercase

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- Not a primitive: String!

# Declaring Primitive Variables

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int myVar = 5;
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int	32	-2,147,483,648	2,147,483,647
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byte	Byte
short	Short
int	Integer
long	Long
float	Float

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```
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```

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double doubleValue = 156.5d;  
Double doubleObj = new Double(doubleValue);  
byte byteValue = doubleObj.byteValue();
```

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double doubleValue = 156.5d;  
Double doubleObj = new Double(doubleValue);  
byte byteValue = doubleObj.byteValue();  
int intValue = doubleObj.intValue();  
float floatValue = doubleObj.floatValue();  
String stringValue = doubleObj.toString();
```

# Primitive Numeric Defaults

- Primitive numeric variables default to 0.

```
int myInt;
```

```
System.out.println("The value of myInt is " + myInt);
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The value of myInt is 0

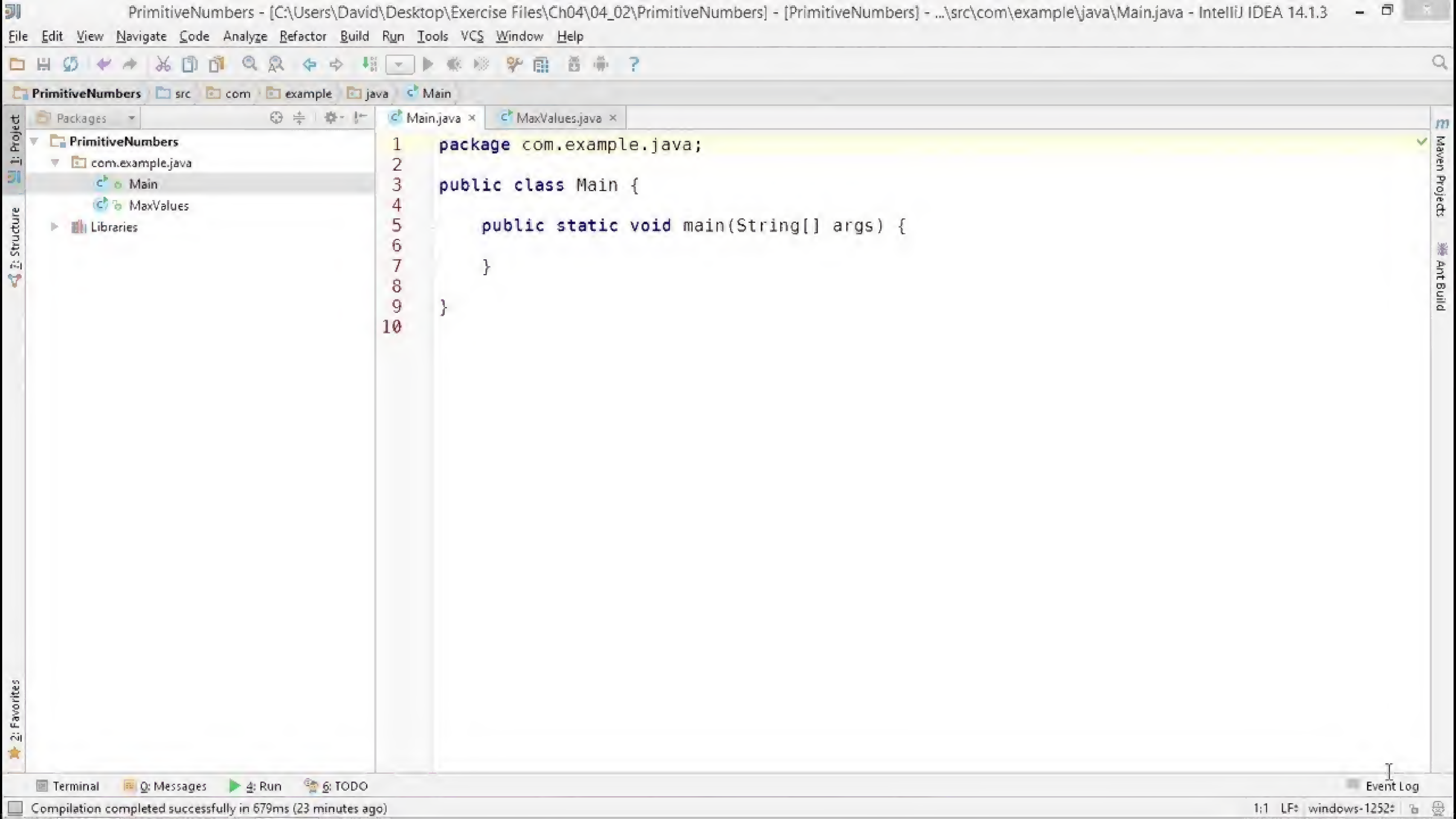
# Primitive Numeric Defaults

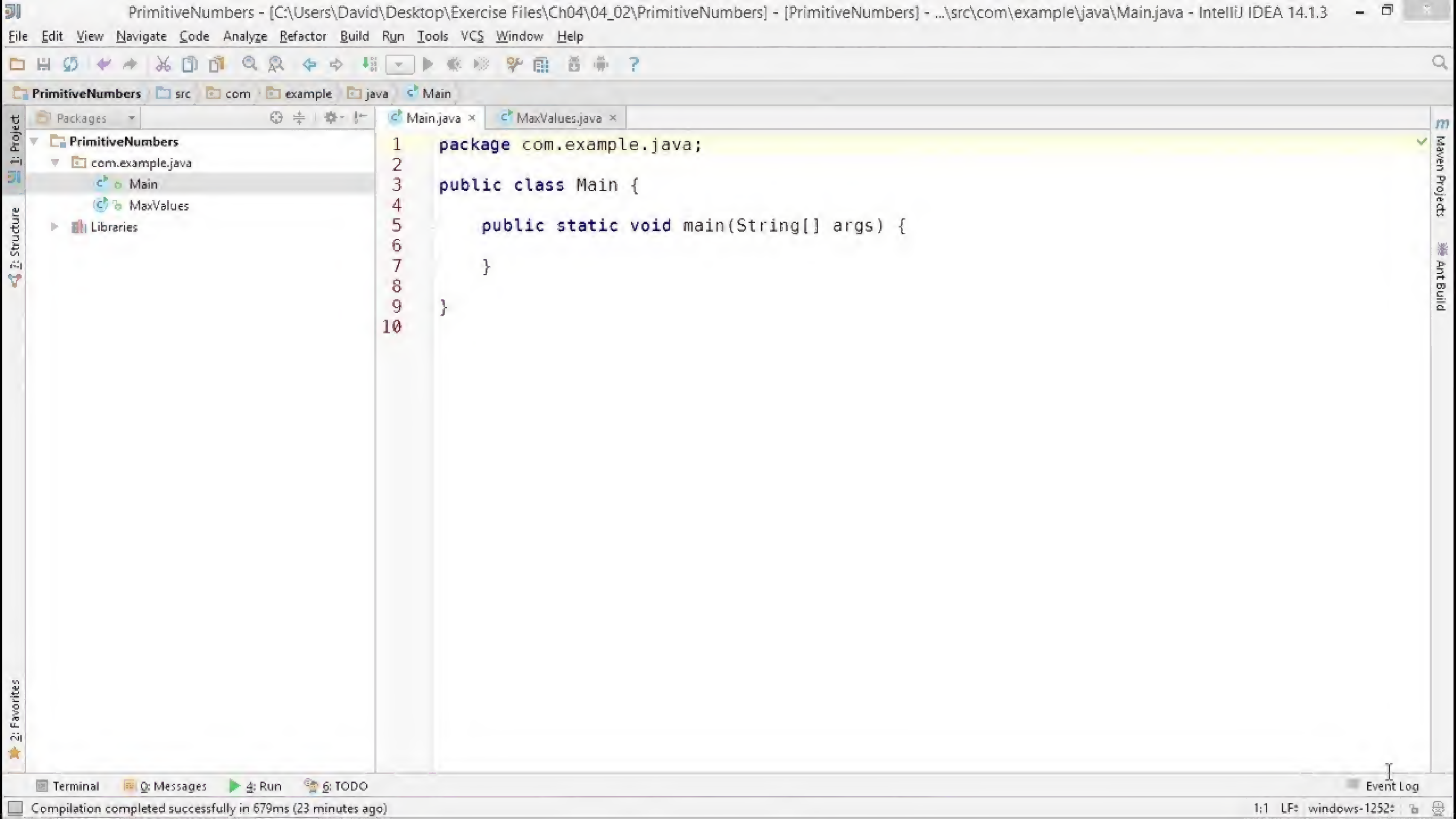
- Primitive numeric variables default to 0.

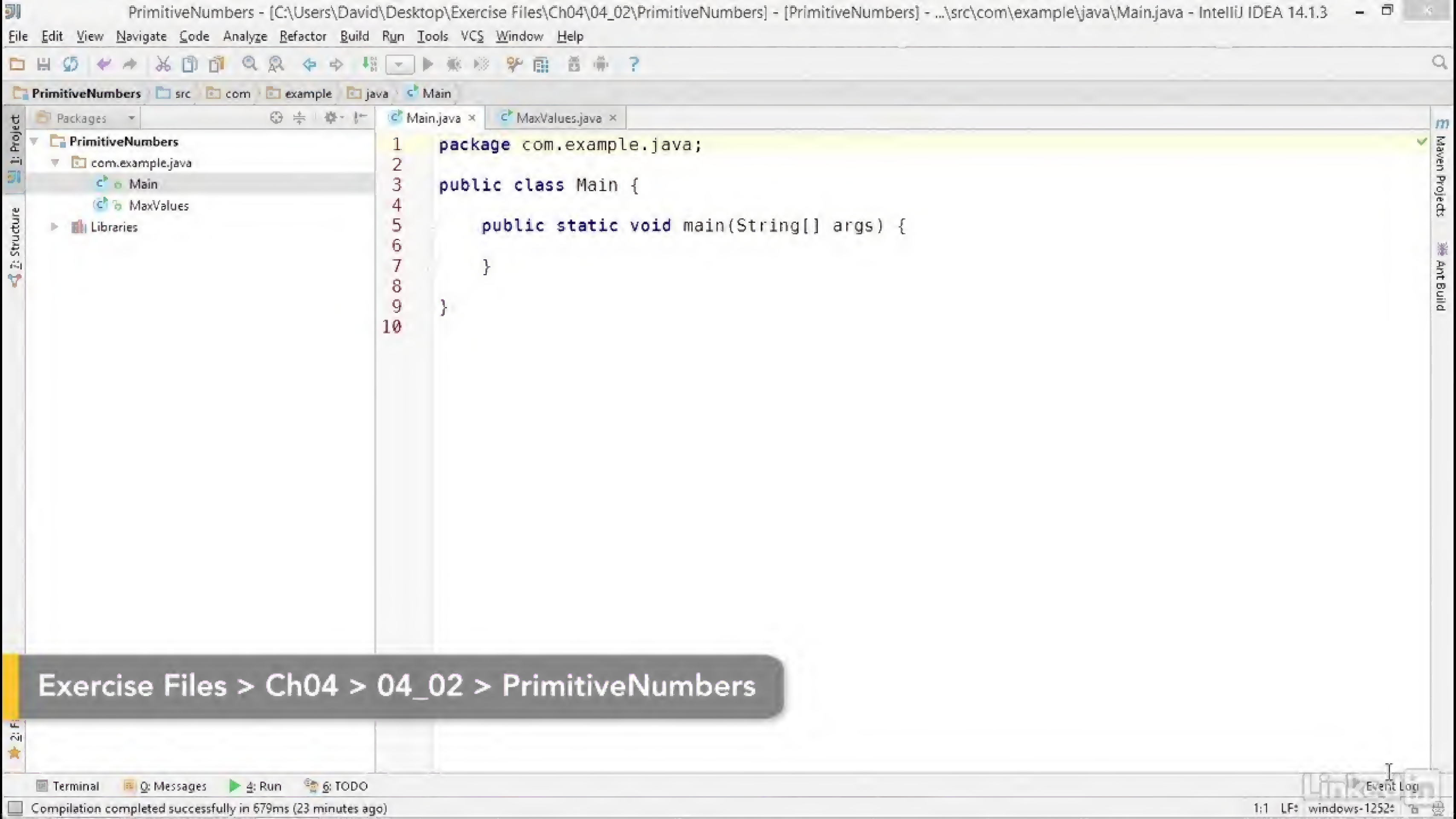
```
int myInt;
```

```
System.out.println("The value of myInt is " + myInt);
```

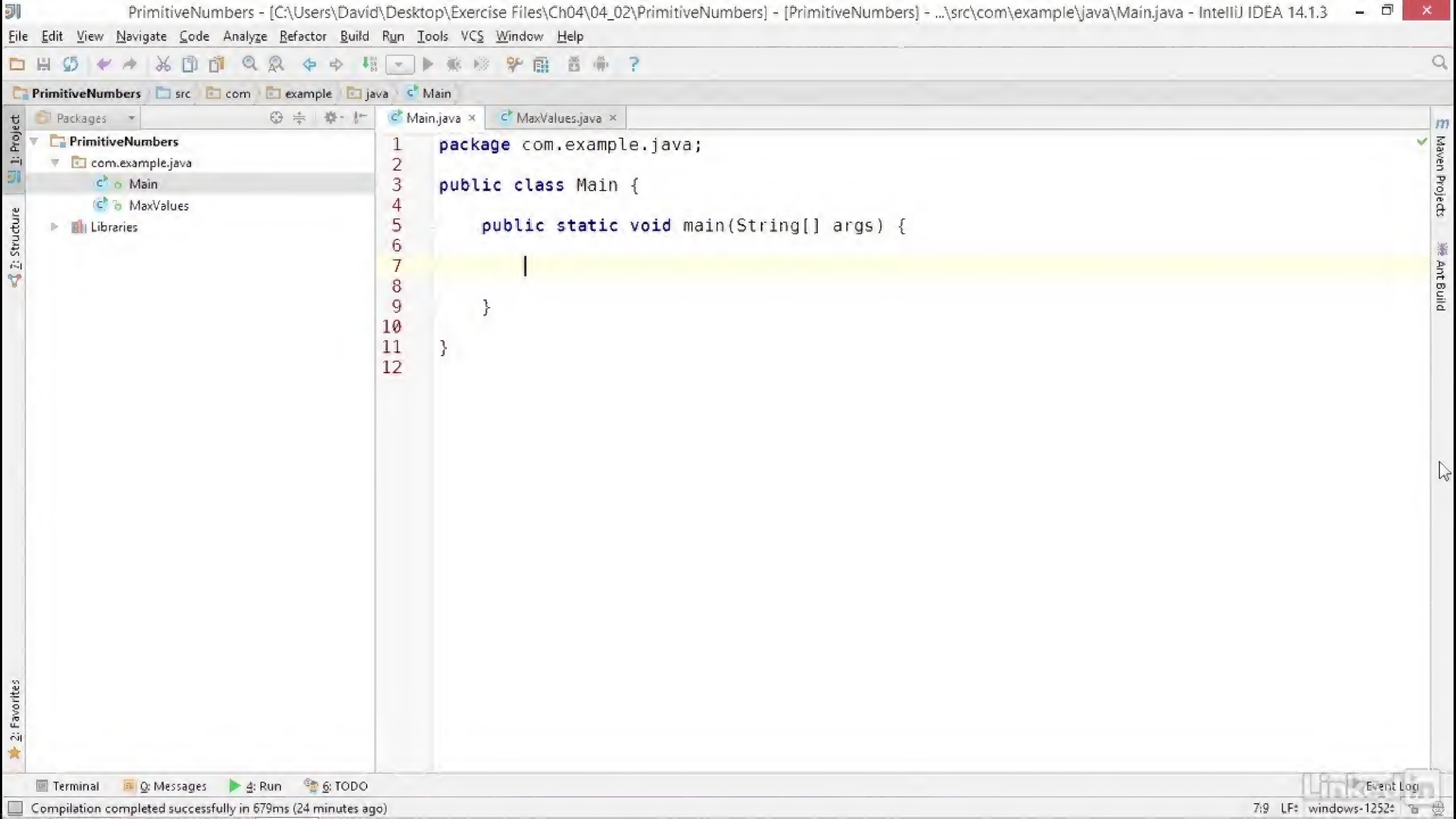
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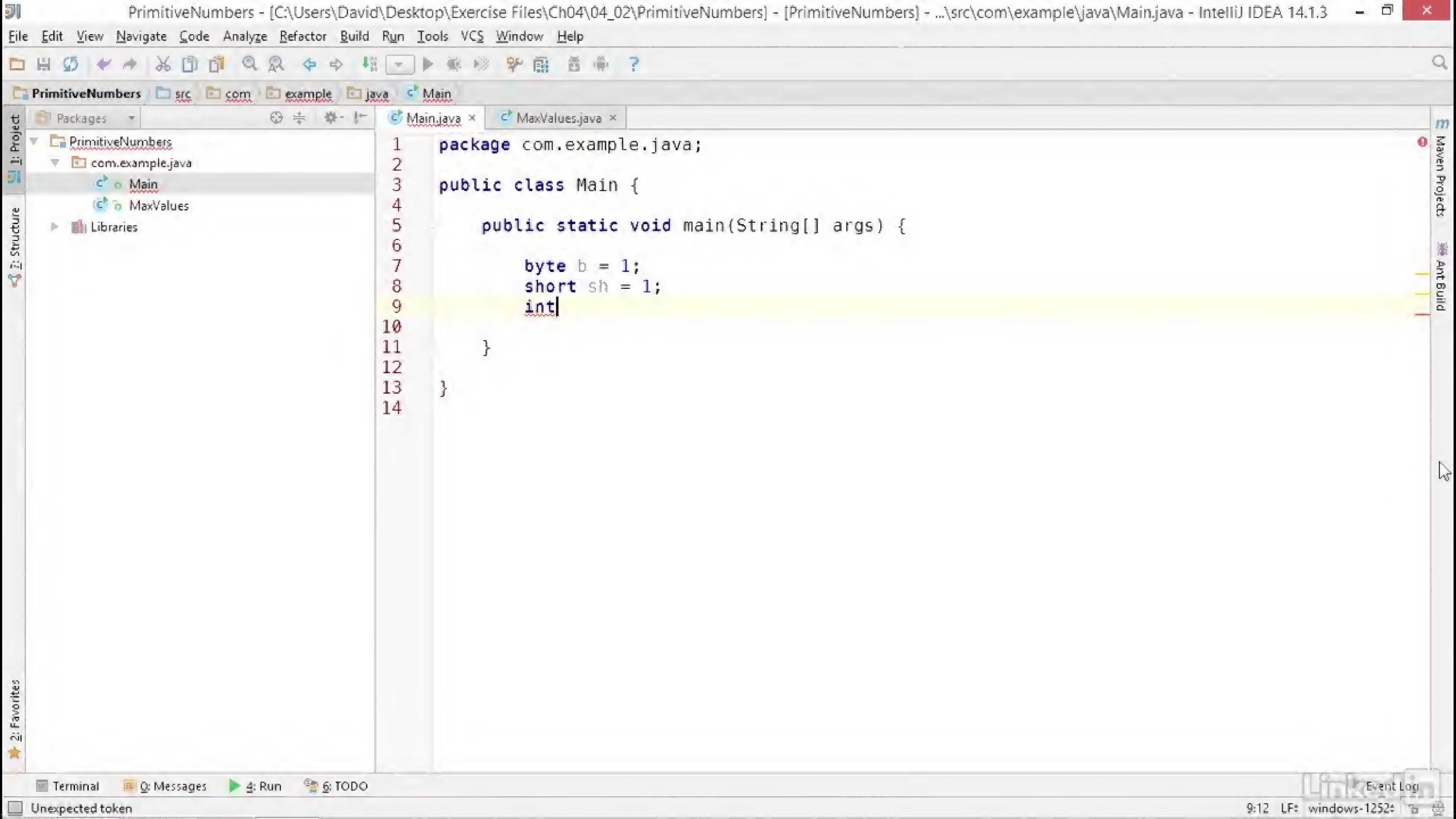






Exercise Files > Ch04 > 04\_02 > PrimitiveNumbers







1: Project

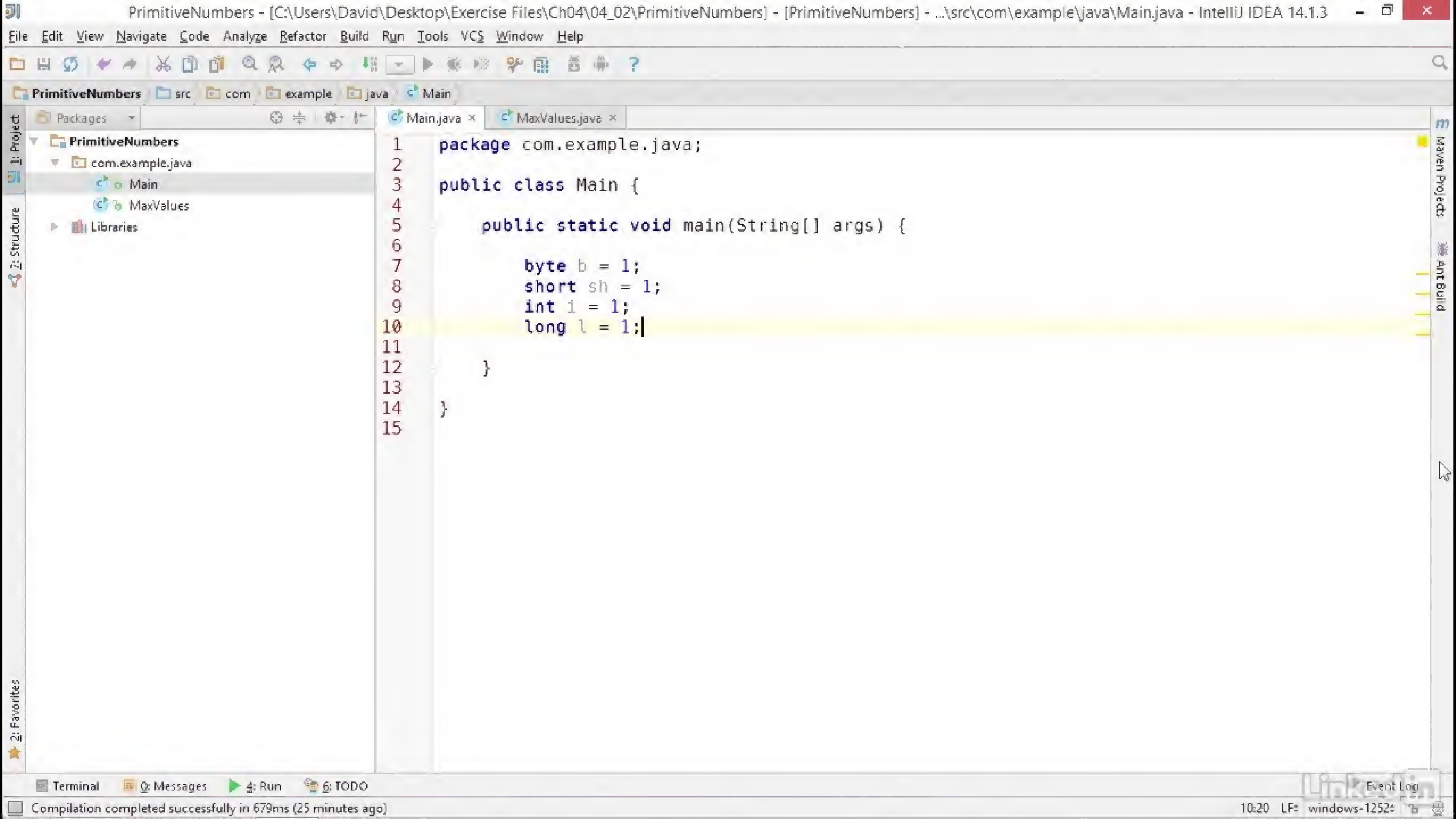
2: Structure

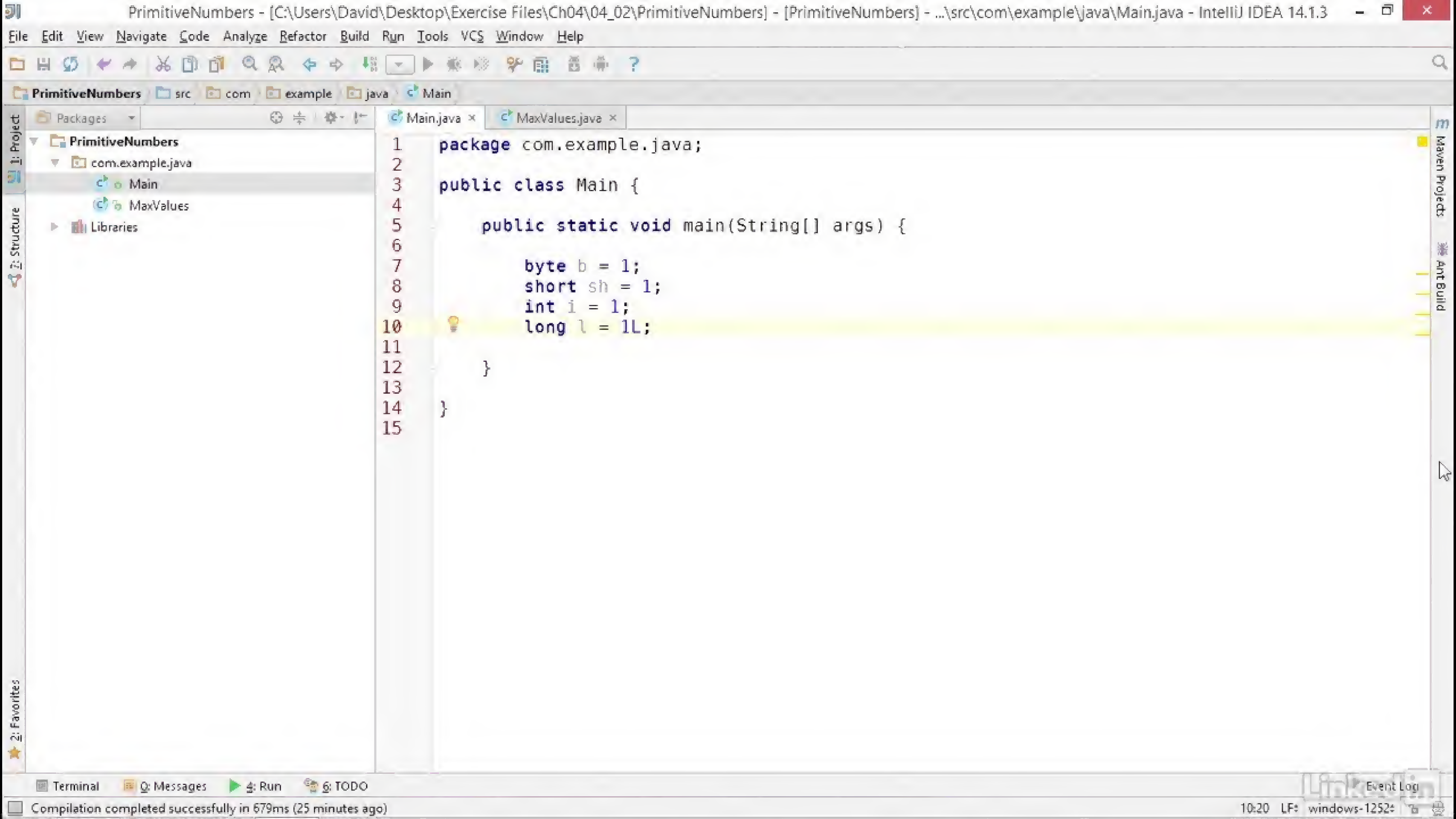
2: Favorites

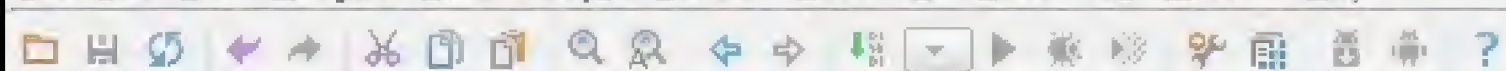
Project Structure:

- PrimitiveNumbers
  - com.example.java
    - Main
    - MaxValues
  - Libraries

```
1 package com.example.java;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         byte b = 1;
8         short sh = 1;
9         int i = 1;
10        long l = 1;
11
12    }
13
14 }
15
```







PrimitiveNumbers src com example java Main

Packages

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Main.java x MaxValues.java x

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14
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17 }
18
```

2: Favorites



PrimitiveNumbers src com example java Main

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13        double d = 1d;
14
15        |
16
17    }
18
19 }
20
```

2: Favorites